This printed version of the Schedule of Classes is current as of 7/27/23 10:10 AM.

AASP African American Studies Winter 2023

AASP100 **Introduction to African American Studies**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH, D | General Education: DSHS, DVUP

Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.

WB11	Jason Nichols	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

AASP230 **Social (In)Justice and African-American Health and Well-Being**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

African Americans suffer worse outcomes than non-Hispanic whites on nearly every health measure and outcomes that link to overall well-being like depressive symptoms or homicides. Health disparities are experienced by other underrepresented minority groups, but because of the unique historic and current experiences of African Americans, the determinants and solutions to African American health disparities are unique. The premise of this course is that African American health disparities are due to social injustices perpetuated on the institutional level that have permeated the lived experiences of African Americans leading to racial disparities in health and well-being. As such, the solutions on the both policy, and community, level must have a social justice approach.

WB11	Ashley Newby	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

AASP498Q **Special Topics in Black Culture; Black Discourse in Digital Media**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

Examines the connections between black discourse, oral culture, and traditional media with new digital media technology. Various methods, theoretical approaches, and tools for studying social media and online communication. Crosslisted with COMM498A. Credit only granted for COMM498A or AASP498Q.

WB11	Catherine Steele Th 5:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

AASP498R **Special Topics in Black Culture; Race and Sports**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of the cultural and historical antecedents of contemporary African and African American society. Emphasis on the social, political, economic and behavioral factors affecting blacks and their communities. Topics vary.

A web-based class which uses print media and film to investigate the relationship between two issues that play a large role in American society--race and sports.

WB11	Tasha Harris Class time/details on ELMs	Seats (Total: 25) ONLINE

AAST Asian American Studies Winter 2023

AAST355 **Asian Americans in Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVUP

Cross-listed with: AMST328W. Credit only granted for: AAST355, AAST398L or AMST328W. Formerly: 398L.

Explores how Asian Americans have historically been represented in the U.S. by Hollywood, and in turn, how independent and Hollywood Asian American filmmakers have represented themselves. It covers the history of racial, gendered, and sexualized representations of Asian Americans in Hollywood, as well as Asian American filmic responses within and outside Hollywood. It also introduces how four basic tools of film analysis mise-en-scene, cinematography, editing and sound work together to create meaning in moving images. It examines how these elements are put together in three different types of films by Asian American filmmakers: narrative, documentary, and experimental. How films function in society to circulate ideas that reproduce and challenge stereotypes about Asian Americans.

WB11	Binod Paudyal, Janelle Wong Class time/details on ELMs	Seats (Total: 20) ONLINE
WB12	Binod Paudyal Class time/details on ELMs	Seats (Total: 20) ONLINE

AMSC Applied Mathematics & Scientific Computation Winter 2023

AMSC698A **Advanced Topics in Applied Mathematics**

Credits: 1-4 Grading Method: Regular, Audit

Contact department for information to register for this course.

AMSC762 Data Analysis Project

Credits: 1 Grading Method: Regular

Restriction: Permission of CMNS-Applied Mathematics department; and permission of instructor.

This course cannot be used to meet any of the Applied Statistics Area's seminar requirements. Offered yearly, required of and limited to MS non-thesis and doctoral students in Applied Statistics Area, for whom the resulting projects serve as a Qualifying Exam component. After 5-6 lectures or presentations on components of successful data analyses and write-ups, 3-4 sessions will discuss previous student project submissions. The culminating project, to be completed in a two week period between semesters, is an analysis and written report of one of three project choices made available each year to represent a spectrum of realistic applied statistical problems.

0101	Konstantina Trivisa	Seats (Total: 10)
	Contact instructor or department for details.	

AMSC899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

AMST American Studies Winter 2023

AMST101 Introduction American Studies

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO, D General Education: DSHU, DVUP

Credit only granted for: AMST101 or AMST201. Formerly: AMST201.

Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.

WB11	Wanda Hernandez	Seats (Total: 15)
	Class time/details on ELMs	ONLINE
WB12	Dallas Donnell	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

Click here for descriptions of all AMST winter courses.

AMST203 Popular Culture in America

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU, DVUP

An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.

An introduction to American popular culture, its historical development, and its role as a reflection of and influence onour culture and society. We will also examine historical and contemporary celebrity culture from various critical theoretical perspectives.

WB11	Hazim Abdullah-Smith Class time/details on ELMs	Seats (Total: 15) ONLINE
WB12	Jung Kim Class time/details on ELMs	Seats (Total: 15) ONLINE

AMST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

0105	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ANSC Animal Science Winter 2023

ANSC372 **Sustainable Agriculture and Environment in Nicaragua: Study Abroad**

Credits: 2 Grading Method: Regular

Prerequisite: ANSC371.

This course will allow students to see, experience, and analyze unique programs in Nicaragua, a country that is rebuilding its agricultural economy to address multiple goals including reducing poverty, improving food security, as well as decreasing impacts from climate change and decreasing greenhouse gas emissions. Students will see differences between the US and Nicaragua, and in turn, will identify structures that cause those differences.

Contact department for information to register for this course.

ANSC386 **Experiential Learning**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Animal & Avian Sciences department. Restriction: Junior standing or higher.

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0118	Christine Hakenkamp Contact instructor or department for details.	Seats (Total: 10)

ANSC399 **Special Problems in Animal Science**

Credits: 1-2 Grading Method: Regular, Pass-Fail, Audit

Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.

Contact department for information to register for this course.

ANSC497 **Animal Biotechnology Recombinant DNA Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ANSC327; or students who have taken courses with comparable content may contact the department. Recommended: ANSC437 and ANSC435.

An advanced course offering hands-on experience in performing recombinant DNA experiments. Current molecular biology techniques used for cloning genes, analyzing the gene products, and modifying the genes of animals will be performed. Techniques include isolation of DNA, use of restriction enzymes; cloning procedures, PCR analysis, and Southern hybridizations. Lecture material focuses on interpretation of results generated in the laboratory.

0101	Lisa Taneyhill	Seats (Total: 10)
	MTuWThF 9:00am - 5:00pm	ANS 0108

ANSC688G **Special Topics; Animal Biotechnology Recombinant DNA Laboratory**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.

0101	Lisa Taneyhill	Seats (Total: 10)
	MTuWThF 9:00am - 5:00pm	ANS 0108

ANSC699 **Special Problems in Animal Science**

Credits: 1-2 Grading Method: Regular, Audit, Sat-Fail

Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.

0142	Carol Keefer	Seats (Total: 5)
	Contact instructor or department for details.	

ANSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ANSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ANTH Anthropology Winter 2023

ANTH222 Introduction to Ecological and Evolutionary Anthropology

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit | CORE: LL | General Education: DSNL, DVUP

Credit only granted for: ANTH220 or ANTH222.

An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.

Students must pay a $40.00 lab materials fee.

0101	Miguel Vilar	Seats (Total: 20)	
	MWF 9:00am - 12:15pm	LEF 2166	
	Class time/details on ELMs	ONLINE	
	TuTh 9:00am - 2:00pm	ESJ 1324	Lab

ANTH240 Introduction to Archaeology

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

WB11	Joshua Samuels	Seats (Total: 25)	
	Class time/details on ELMs	ONLINE	
	MF 2:00pm - 3:00pm	ONLINE	Discussion

ANTH260 Introduction to Sociocultural Anthropology and Linguistics

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Culture and social relationships in a wide variety of settings from small-scale to complex societies. An overview of how anthropology analyzes human behavior. Particular attention to the relationship between language and culture.

WB11	Melissa Stevens	Seats (Total: 25)	
	Class time/details on ELMs	ONLINE	

ANTH263 Sexuality and Culture

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Credit only granted for: ANTH298K or ANTH263. Formerly: ANTH298K.

An overview of sexuality from an anthropological perspective, looking at aspects of sexuality within our own culture and in cultures around the world. Course topics include the biology and culture of sex, gender, physical attraction, sexual orientation, marriage and mating taboos, fertility control, sexually transmitted diseases, and commercial aspects of sex.

WB11	Jeanne Hanna	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ANTH265 **Anthropology of Global Health**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DVUP, SCIS

An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.

WB11	Laura Gilchrest	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

ANTH266 **Changing Climate, Changing Cultures**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DVCC, SCIS

Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.

WB11	Jana Kopelentova Rehak	Seats (Total: 35)
	TuTh 7:30pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ANTH407 **Anthropology and Development**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit

Jointly offered with: ANTH607. Credit only granted for: ANTH407 or ANTH607.

An examination of the intersection of Anthropology, international development and foreign policy. The course provides students with conceptual tools to engage with international development and other assistance projects in areas including conservation and climate change, governance and human security, gender, human rights, and political stability from a variety of viewpoints.

WB11	Christopher Hewlett, Eduardo Fernandez	Seats (Total: 20)
	TuTh 2:00pm - 5:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ANTH463 **Climate Cultures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Climate change is an inherently global problem. To a significant degree, its causes and consequences are cultural in nature: Climate change impacts, mitigation and adaptation efforts are perceived and addressed in culture-specific ways. This course will be an overview of the holistic and anthropological approaches to the study of how culture frames what we know and how we respond to climate change. Readings, lectures, and discussions will focus on how culture is expressed through the interplay of processes and practices in specific economic, social and political contexts.

WB11	Grit Martinez	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

ANTH474 **Language, Racism & Identity**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Jointly offered with: ANTH674. Credit only granted for: ANTH474, ANTH469R, ANTH674, or ANTH689R.

An exploration of the relationship between language, identity and racism in a variety of social contexts, in the U.S. and elsewhere.

WB11	Jacqueline Messing	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

ANTH607 **Anthropology and Development**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with: ANTH407. Credit only granted for: ANTH407 or ANTH607.

An examination of the intersection of Anthropology, international development and foreign policy. The course provides students with conceptual tools to engage with international development and other assistance projects in areas including conservation and climate change, governance and human security, gender, human rights, and political stability from a variety of viewpoints.

WB11	Christopher Hewlett, Eduardo Fernandez	Seats (Total: 20)
	TuTh 2:00pm - 5:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ANTH674 **Language, Racism & Identity**

Credits: 3 Grading Method: Regular, Audit

Jointly offered with: ANTH474. Credit only granted for: ANTH474, ANTH469R, ANTH674, or ANTH689R.

This course explores the relationship between language, identity and racism in a variety of social contexts, in the U.S. and elsewhere.

WB11	Jacqueline Messing	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

ANTH688C Current Developments in Anthropology; Climate Cultures

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.

WB11	Grit Martinez	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

ANTH689A Special Problems in Anthropology

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

ANTH701 Anthropology Internship Preparation

Credits: 3 Grading Method: Regular, Audit

Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.

Contact department for information to register for this course.

ANTH712 Anthropology Internship Analysis

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ANTH789.

The preparation and presentation of internship results, and the development of skills in report writing and presentation. Includes the completion of a professional quality report or publishable paper based on the internship experience.

Contact department for information to register for this course.

ANTH742 Advanced Methods in CRM

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be in the Cultural and Heritage Resource Management Program (CHRM); or by permission of the Anthropology department.

An examination of the range of nondestructive technologies used to research and image cultural and heritage resources. Standard archaeological survey methods will be covered and will focus on remote sensing technologies and how an integrated approach to archaeological investigation can reveal vital information for resource planning, interpretation, and outreach.

PLA1	Lyle Torp	Seats (Total: 20)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact oes@umd.edu.	

ANTH744 Collections, Data Management and Cultural Materials Preservation

Credits: 3

Grading Method: Regular, Audit

Restriction: Must be in the Cultural and Heritage Resource Management Program (CHRM); or by permission of the Anthropology department.

An overview of the process of collecting cultural materials and samples with the goal of obtaining as much information during analysis as possible followed by content relating to archaeological curation and collections management. Provides information on the preservation of cultural materials from the time they leave the field until they are placed in a certified collections facility.

PLA1	Sandra Konzak	Seats (Total: 17)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact oes@umd.edu.	
PLA2	Sandra Konzak	Seats (Total: 17)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact oes@umd.edu.	

ANTH749 Cultural and Heritage Resource Management Internship

Credits: 1-6 Grading Method: Regular, Audit

An internship/practicum that would contribute to students' understanding of the overall process of CHRM. Students who are already working in CRM or a closely related field may use their employment as their practicum if the opportunity is available for them to learn beyond their current job duties.

PLA1	Matthew Palus	Seats (Total: 20)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact oes@umd.edu.	

ANTH788 **Internship Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

This course augments ANTH 789 and is graded in conjunction with it.

Contact department for information to register for this course.

ANTH789 **Internship**

Credits: 3-6 Grading Method: Regular, Audit

Individual instruction course supervised by a department faculty member.

Contact department for information to register for this course.

ANTH799 **Master's Thesis Research; Cultural and Heritage Resource Management Thesis**

Credits: 1-6 Grading Method: Sat-Fail

PLA1	Matthew Palus	Seats (Total: 20)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact oes@umd.edu.	

ANTH898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ANTH899 **Doctoral Dissertation Research**

Credits: 6 Grading Method: Sat-Fail

Contact department for information to register for this course.

AOSC123 **Causes and Consequences of Global Change**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

Cross-listed with: GEOL123. Credit only granted for: AOSC123, GEOG123, or GEOL123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

WB11	Samantha Kemper Class time/details on ELMs	Seats (Total: 40) ONLINE

AOSC200 **Weather and Climate**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNL (if taken with AOSC201), DSNS, SCIS

Prerequisite: MATH107, MATH110, or MATH115. Recommended: Concurrent enrollment in AOSC201.

What are weather and climate? Most people think they know but if you ask people to explain the differences and similarities you're bound to get a range of answers. Weather affects not just our daily activities but other important aspects of society such as transportation, commerce, security and agriculture. Most people understand what weather is to some extent. Climate and climate change are concepts that evoke strong emotional responses from people but are less well understood. In this class, students examine fundamental issues such as the greenhouse effect, severe weather, and global weather patterns and how they relate to a changing climate. Instruction in the lectures will provide the basic knowledge needed to understand these issues. In the discussion sections, students will be divided into groups to address the implications of these topics through group projects.

WB11	Gillian Felton, Bennett Erdman, Jeffrey Henrikson, Erin Evans, Hannah Zafar Class time/details on ELMs	Seats (Total: 30) ONLINE
WB12	Jeffrey Henrikson, Bennett Erdman, Erin Evans, Hannah Zafar, Gillian Felton Class time/details on ELMs	Seats (Total: 30) ONLINE
WB13	Gillian Felton, Bennett Erdman, Jeffrey Henrikson, Erin Evans, Hannah Zafar Class time/details on ELMs	Seats (Total: 30) ONLINE

AOSC201 **Weather and Climate Laboratory**

Credits: 1	Grading Method: Regular, Pass-Fail, Audit	CORE: PL

Corequisite: AOSC200.

Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, forecasting practice and climate modeling.

WB11	Hannah Zafar, Bennett Erdman, Jeffrey Henrikson, Gillian Felton, Erin Evans Class time/details on ELMs	Seats (Total: 30) ONLINE	 Lab
WB12	Bennett Erdman, Jeffrey Henrikson, Gillian Felton, Hannah Zafar, Erin Evans Class time/details on ELMs	Seats (Total: 30) ONLINE	 Lab
WB13	Bennett Erdman, Erin Evans, Jeffrey Henrikson, Hannah Zafar, Gillian Felton Class time/details on ELMs	Seats (Total: 30) ONLINE	 Lab

AOSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ARAB Arabic Winter 2023

ARAB499G **Special Topics in Arabic Studies; Serialized Television in the Arab World: Drama, Action, and Political Dissent**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.

Crosslisted with CINE429A. Credit only granted for ARAB499G or CINE429A. This course focuses on the genre of serialized television in the Arabic-speaking countries, including miniseries, Ramadan soap operas, and the recent category of Netflix-produced Arabic shows. We will examine the history and core elements of this genre both globally and as pertaining to the Arab world. An important vehicle of cultural and artistic expression, Arabic television series interrogate pressing sociocultural and political issues - often in "real time." This course focuses on a selection of critically acclaimed television shows that offer commentary on such issues as national identity; religious fundamentalism and perceptions of ISIS; gender equality and the institution of marriage; and political and cultural regional tensions in the Arab world. All course materials are in English.

WB11	Valerie Anishchenkova Class time/details on ELMs	Seats (Total: 25) ONLINE

ARCH Architecture Winter 2023

ARCH448B **Selected Topics in Visual Studies in Architecture; Design Drawing: Explorations in Mixed-Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Visual Studies in Architecture

This course will encourage students to explore the three primary tools of visual representation in design: manual drawing, digital modeling and physical modeling. Students will research and discuss architectural drawing precedents that utilize mixed-media techniques, while creating a series of design drawings and models that prioritize layering and hybridization. Precedent studies will range from mid-century pioneers in architectural representation, to contemporary designers on the leading edge of design drawing. Each week, in conjunction with class discussions, the students will design a compact architectural intervention, which will be developed throughout the duration of the course. Students will explore in what ways these tools of representation allow us to understand, see, and imagine the built environment - and how each design tool can lead to unique insights in the design process.

WB11	Kenneth Filler	Seats (Total: 15)
	MTh 5:00pm - 7:00pm	ONLINE
	Tu 5:00pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ARCH448E **Selected Topics in Visual Studies in Architecture; Campus Pavilion Workshop**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected Topics in Visual Studies in Architecture

0101	David Atwater	Seats (Total: 15)
	MWF 11:00am - 4:00pm	Location: TBA

ARCH478D **Selected Topics in Architecture; Havana's Art & Culture: The intersection of architecutre, planning, preservation and economics.**

Credits: 3 Grading Method: Regular

Selected Topics in Architecture

Cross-listed with ARCH678D, HISP619C, RDEV689C, URSP399I, and URSP688R. Credit only granted for ARCH478D, ARCH678D, HISP619C, RDEV689C, URSP399I, or URSP688R. This course will explore art and culture in Havana, Cuba as the intersection of architecture, planning, preservation, and economics, including real estate development. Havana is one of the oldest cities in the hemisphere, having just celebrated its 500th anniversary. The course will provide the opportunity for the students to intensely interact (virtually, from Havana) with Cuban experts in each discipline. Students will first learn about the rich and complex contextual past and present framework for how these four disciplines interact and are manifested in the arts, culture, and society. Group projects will apply the learning to specific neighborhoods in Havana. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, and international collaboration.

Contact department for information to register for this course.

ARCH678D **Advanced Selected Topics in Architecture; Havana's Art & Culture: The intersection of architecutre, planning, preservation and economics.**

Credits: 3 Grading Method: Regular

Graduate Selected Topics in Architecture.

Cross-listed with ARCH478D, HISP619C, RDEV689C, URSP399I, and URSP688R. Credit only granted for ARCH478D, ARCH678D, HISP619C, RDEV689C, URSP399I, or URSP688R. This course will explore art and culture in Havana, Cuba as the intersection of architecture, planning, preservation, and economics, including real estate development. Havana is one of the oldest cities in the hemisphere, having just celebrated its 500th anniversary. The course will provide the opportunity for the students to intensely interact (virtually, from Havana) with Cuban experts in each discipline. Students will first learn about the rich and complex contextual past and present framework for how these four disciplines interact and are manifested in the arts, culture, and society. Group projects will apply the learning to specific neighborhoods in Havana. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, and international collaboration.

Contact department for information to register for this course.

ARCH678M **Advanced Selected Topics in Architecture; Dwelling, Housing, House + Home**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Graduate Selected Topics in Architecture.

WB11	Peter Noonan	Seats (Total: 15)	
	MTh 7:00pm - 9:30pm Class time/details on ELMs	ONLINE ONLINE	Discussion

ARCH678W **Advanced Selected Topics in Architecture; ULI Seminar**

Credits: 3 Grading Method: Regular, Audit

Graduate Selected Topics in Architecture.

0101	Christian Calleri	Seats (Total: 5)
	Contact instructor or department for details.	

AREC Agricultural and Resource Economics Winter 2023

AREC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

0137	Anna Alberini	Seats (Total: 10)
	Contact instructor or department for details.	

AREC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0130	David Newburn	Seats (Total: 20)
	Contact instructor or department for details.	

0137	Anna Alberini	Seats (Total: 5)
	Contact instructor or department for details.	

ARHU Arts and Humanities Winter 2023

ARHU230 **Introduction to Humanities, Health, and Medicine**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Restriction: Permission of ARHU-English Department. Cross-listed with: ENGL254, HIST219N, WGSS230. Credit only granted for: ARHU230 , ENGL289C, ENGL254, ARHU298A, HIST219N, or WGSS230.

An overview of the historical, cultural, ethical, and spiritual dimensions of medicine, human health, disease, and death from the points of view of various humanistic disciplines.

WB11	Robert Lucci	Seats (Total: 20)
	TuTh 11:30am - 2:00pm Class time/details on ELMs	ONLINE ONLINE

ARHU269A **Morocco: In the Footsteps of the Beat Generation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Cross-listed with: ENGL269M. Credit only granted for: ARHU269A or ENGL269M.

Educates students about the history, culture and socio-political situation in Morocco through the reading of fiction related to this country. The focus will be on the intersection of American and Moroccan culture and will cover film, music and literature. The American perception of the "orient" has historically been channeled through the French characterization of Arab societies in North Africa. This course aims to disentangle this western mythology from reality in Morocco. Some of the themes addressed will be globalization, colonialism, racism, orientalism, and women's oppression

Contact department for information to register for this course.

ARHU350 **Chilean Culture, Democracy, and Social Change**

Credits: 3 | Grading Method: Regular | General Education: DVCC

Credit only granted for: ARHU350, ARHU369C, CMLT498C, GVPT309F, HIST329N, HONR349C. Formerly: ARHU369C.

Short term education abroad course offered in Summer term, in Santiago and Valparaiso, Chile. An exploration of both the conditions that led to the 1973 coup d'etat in Chile, and the complex legacy left by the following dictatorship, including competing economic philosophies that are underpinned by religious, historical, and ideological components. This course focuses on how the arts and literature continued to flourish during the dictatorship, and how they have played a continuing role in the country's recovery from its traumatic past.

Contact department for information to register for this course.

ARTH Art History & Archaeology Winter 2023

ARTH200 **Art and Society in Ancient and Medieval Europe and the Mediterranean**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.

WB11	Tony Cui	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

ARTH201 **Art and Society in the West from the Renaissance to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.

WB11	Zoe Copeman	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

ARTH359B **Film as Art; FILMS OF QUENTIN TARANTINO**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.

WB11	Greg Metcalf	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

ARTH369D **Special Topics in Study Abroad III; Ancient Greek & Roman Cultures in Italy**

Credits: 3 | Grading Method: Regular

Special topics course taken as part of an approved study abroad program.

This introductory course will examine the ancient Greeks and Romans in Italy through investigation of significant sites, monuments and museum collections in Rome and the Bay of Naples area. The essence of the course is virtual site visits that bring students into contact with original artifacts and monuments through which we may understand these ancient cultures.

Contact department for information to register for this course.

ARTH389N **Special Topics in Art History and Archaeology; Identities and Modernism**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Students will survey art and visual culture of the 19th and early-20th centuries with a focus on Europe and the United States. Examine the role modern art played in the construction of sexuality as a facet of identity, and in the representation of modern masculinity, femininity, and androgyny. Investigate how via modern art, identities were defined, challenged, exploited, and experienced. The issues considered in this course include gender and sexuality, race and representation, pseudo-science, and LGBTQ+ history.

WB11	Ashley Cope	Seats (Total: 30)	
	Class time/details on ELMs Th 6:45pm - 9:30pm	ONLINE ONLINE	 Discussion

ARTT Art Studio Winter 2023

ARTT110 **Elements of Drawing I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP

Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.

Students must pay a $40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 18)
	MTuWThF 10:00am - 3:00pm	ASY 2317

ARTT210 **Elements of Drawing II**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT110.

Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.

Students must pay a $40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 10)
	MTuWThF 10:00am - 3:00pm	ASY 2317

ARTT418 **Advanced Drawing Studio; Advanced Drawing**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.

Prerequisite: ARTT210. Students must pay a $40.00 studio lab fee.

0101	Matthew McLaughlin	Seats (Total: 5)
	MTuWThF 10:00am - 3:00pm	ASY 2317

ARTT456 **Motion Design**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ARTT355, ARTT356, and ARTT357; or permission of ARHU-Art department.

Explores computer graphics and visual communication principles in a time-based context. Examination of fundamental design principles through digital projects that involve photo manipulation, digital illustration, layout, animation, and web design.

0101	Antwon Key	Seats (Total: 15)
	MTuWThF 10:00am - 3:00pm	ASY 2322

ARTT698A **Directed Graduate Studies in Studio Art**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Independent work. Meetings with faculty and studio time arranged.

0101	Justin Strom	Seats (Total: 1)
	Contact instructor or department for details.	

ARTT698B **Directed Graduate Studies in Studio Art**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Independent work. Meetings with faculty and studio time arranged.

0101	Shannon Collis	Seats (Total: 1)
	Contact instructor or department for details.	

BCHM Biochemistry Winter 2023

BCHM677 **Computational Tools in Biochemistry**

Credits: 1 Grading Method: Sat-Fail

Prerequisite: BCHM674 or BCHM671; or permission of instructor. Restriction: Must be in one of the following programs (Biochemistry (Master's); Biochemistry (Doctoral)) ; or permission of instructor.

A practical, hands-on introduction to the application of computational tools that support biochemistry research. Selected topics may include: efficient use of scientific literature databases and the preparation of professional bibliographies; proteomics and mass spectrometry; bioinformatics and genomics programs an database resources; molecular structure visualization and modeling; quatitative data fitting and error analysis; and laboratory research ethics.

Class begins meeting on Wednesday, January 6th.

0101	Douglas Julin	Seats (Total: 20)
	MWF 9:00am - 12:50pm	CHE 2116

BIOE Bioengineering Winter 2023

BIOE241 **Biocomputational Methods**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Fischell Department of Bioengineering department.

Application of computer technology to biological and natural resource systems considering engineering aspects. Designed to help students in the use of computer technology for problem solving. The course will cover 4-5 software packages important for later use by the student.

0101	Kyung Koh	Seats (Total: 20)
	MTuWTh 9:30am - 12:45pm	CHE 2145

BIOE489X **Special Topics in Bioengineering; Primary Literature in Genome Editing & Synthetic Biology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Exploring a variety of topics with Bioengineering.

Prereqs: BIOE120, BIOE121, BSCI330 The course will introduce students to the field of genome editing and synthetic biology. After reviewing basic molecular biology concepts necessary to engage with the material, the course will explore the relevant cutting-edge technologies via in-depth analysis of the primary literature, both historically important and recent landmark papers.

WB11	Jarred Callura	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

BIOM Biometrics Winter 2023

BIOM301 **Introduction to Biometrics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Prerequisite: MATH113 or MATH115.

Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.

WB11	Christine Hakenkamp	Seats (Total: 75)	
	MTuWThF 11:00am - 1:00pm	ONLINE	
	MTuWThF 1:00pm - 2:00pm	ONLINE	Discussion

BISI Biological Sciences Winter 2023

BISI799 **Master's Thesis Research**

Credits: 3 Grading Method: Sat-Fail

Contact department for information to register for this course.

BISI899 **Doctoral Dissertation Research**

Credits: 1-6 Grading Method: Sat-Fail

0102	Hector Corrada Bravo	Seats (Total: 1)
	Contact instructor or department for details.	

BMGT Business and Management Winter 2023

BMGT099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

Contact department for information to register for this course.

BMGT110 **Introduction to the Business Value Chain**

Credits: 3 Grading Method: Regular CORE: IE

Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.

WB11	Jeffrey Mund	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

BMGT220 **Principles of Accounting I**

Credits: 3 Grading Method: Regular

Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.

WB11	Lu Yan	Seats (Total: 45)
	TuWThF 1:30pm - 4:40pm	ONLINE

BMGT230 **Business Statistics**

Credits: 3 Grading Method: Regular General Education: FSAR

Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324.

Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.

WB11	Farzad Fathi	Seats (Total: 45)
	TuWThF 1:30pm - 4:40pm	ONLINE
	Class time/details on ELMs	ONLINE

BMGT289I Why Good Managers Make Bad Decisions

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: DSSP, SCIS

This course provides an overview of the concepts, approaches, and vocabulary of evidence-based management (EBM) and provides an understanding of how experts in many disciplines can employ evidenced based decision making. EBM is an emerging movement in business to explicitly use the current best information in management decision making with special emphasis on relevant scientific findings and unbiased organizational facts. The course stresses how individuals practicing EBM learn how to rethink their approaches to data and knowledge in order to make more effective decisions.

WB11	Jeff Miller	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

BMGT301 Introduction to Information Systems

Credits: 3 Grading Method: Regular

Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMSC, must complete BMGT301 for their BMGT degree.

Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.

WB11	Zeinab Karake	Seats (Total: 40)
	TuWThF 2:00pm - 5:10pm	ONLINE
	Class time/details on ELMs	ONLINE
	Major restriction is not applicable for Winter 2023. Any interested student may register.	

BMGT364 **Managing People and Organizations**

Credits: 3 Grading Method: Regular

An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.

WB11	Roy Thomason	Seats (Total: 55)
	TuWThF 10:00am - 1:10pm	ONLINE

BMGT380 **Business Law I**

Credits: 3 Grading Method: Regular

Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.

WB11	Justin Reyna	Seats (Total: 50)
	MTuWThF 10:00am - 12:55pm	ONLINE

BMGT395 **Principles of Management for Non Business Majors**

Credits: 3 Grading Method: Regular

Restriction: Must not have completed BMGT364; and must not be a major in the Robert H. Smith School of Business. Credit only granted for: BMGT395 or BMGT364. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT364 for General Business minor students only.

Introduces concepts related to organization behavior. Topics include leadership, team decision making and management, conflict resolution and negotiations, organizational culture, and organization change. Students will learn how to apply those concepts and theories to understanding and critically analyzing various individual, interpersonal, group, and organizational management processes.

WB11	Nicole Coomber	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

BMGT398B **Individual Study in Business and Management; Germany in the New Europe: Politics, Business, and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

BMGT428D **Special Topics in Accounting; Accounting and Finance: Emerging Tech, ESG, UK and European Regulation, and Historical Foundations**

Credits: 3 Grading Method: Regular

Selected advanced topics in Accounting.

Contact department for information to register for this course.

BMGT438L **Special Topics in Operations Management; From Here to There: Getting Products To Customers**

Credits: 3 Grading Method: Regular

Selected advanced topics in operations management.

Contact department for information to register for this course.

BMGT438R **Special Topics in Operations Management; Japan: From Quality Past to Automated Future**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected advanced topics in operations management.

Contact department for information to register for this course.

BMGT469K **Management and Organization Short-term Study Abroad; Social Entrepreneurship and Innovation in the Contemporary South African Context**

Credits: 3 Grading Method: Regular

Selected short-term study abroad topics in management and organization.

Contact department for information to register for this course.

BMGT499I **Advanced Business Topics; Certified Global Business Professional (CGBP) Student Pathways in International Business**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Course will delve deeply into a specific business topic. Based on experience and knowledge from undergraduate core business classes, students will examine a particular subject from various angles.

The Certified Global Business Professional (CGBP) is a nationally recognized certification sought by employers around the country. This course is structured as a CGBP Student Pathways Program. The course is intended to provide deep exploration of global business topics and prepare students for the CGBP exam.

WB11	Philip Grove	Seats (Total: 40)
	Meets January 3, 2023 - January 12, 2023	
	TuTh 11:00am - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE

BMGT758J **Special Topics in Business and Management; International Business**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Cross-listed with BUSI718B. Credit only granted for BUSI718B or BMGT758J.

WW01	Martin Dresner **Meets January 3, 2023 - January 20, 2023** TuTh 8:30pm - 10:00pm Class time/details on ELMs	Seats (Total: 45) ONLINE ONLINE
WW02	Jeffrey Mund **Meets January 3, 2023 - January 20, 2023** TuTh 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 45) ONLINE ONLINE

BMGT758K **Special Topics in Business and Management; Organizational Change**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Cross-listed with BUSI718C. Credit only granted for BUSI718C or BMGT758K.

WW01	Myeong-Gu Seo **Meets January 3, 2023 - January 20, 2023** MW 6:30pm - 8:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE
WW02	Sheetal Singh **Meets January 3, 2023 - January 20, 2023** MW 8:30pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BMGT758L **Special Topics in Business and Management; Corporate Venturing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Cross-listed with BUSI718V. Credit only granted for BUSI718V or BMGT758L.

WW01	Oliver Schlake **Meets January 3, 2023 - January 20, 2023** TuTh 6:30pm - 8:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

WW02	Oliver Schlake **Meets January 3, 2023 - January 20, 2023** TuTh 8:30pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BMGT828 **Independent Study in Business and Management**

Credits: 1-9 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

BMGT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

BMGT899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

BSCI Biological Sciences Program Winter 2023

BSCI222 **Principles of Genetics**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.

Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.

WB11	Tammatha O'Brien Class time/details on ELMs	Seats (Total: 100) ONLINE

BSCI338Z **Special Topics in Biology; Field Research**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Lectures, seminars, mini-courses and other special instruction in various biological subjects.

(Sponsoring Dept: BIOL). Cannot be used as credit toward the major requirements for any Biological Sciences major.

01Z1	Hadiya Woodham	Seats (Total: 10)
	Contact instructor or department for details.	

BSCI342 **Biology of Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI170 and BSCI171; or BSCI105; or permission of the Harriet Tubman Department of Women, Gender, and Sexuality Studies; or permission of CMNS-Biological Sciences UG Program. Cross-listed with: WGSS326. Credit only granted for: BSCI342, WMST326 or WGSS326. Formerly: WMST326.

The biology of the reproductive system with emphasis on mammals and, in particular, on human reproduction. Hormone actions, sperm production, ovulation, sexual differentiation, sexual behavior, contraception, pregnancy, lactation, maternal behavior and menopause.

Cross-listed with WGSS326. Credit only granted for BSCI342 or WGSS326.

WB11	Justicia Opoku-Edusei	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

BSCI348J **Special Topics in Cell Biology and Molecular Genetics; Medical Microbiology**

Credits: 3 Grading Method: Regular, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Prerequisite: BSCI105 (grade of B or better) or BSCI223 or BSCI283. Credit only granted for BSCI424 or BSCI348J. Mechanisms of pathogenesis detection, prevention and treatment of bacterial, viral and parasitic pathogens of humans.

WB11	Volker Briken	Seats (Total: 13)
	Class time/details on ELMs	ONLINE

BSCI348M **Special Topics in Cell Biology and Molecular Genetics; Epidemiology of Microbial Pathogens**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

Acceptable towards Biological Sciences areas: MICB and GENB. Prerequisite: BSCI105. Study of infectious bacteria and viruses acting at the population level in humans and animals. Identification of causes and spread of infection.

WB11	Jeffrey Olimpo	Seats (Total: 28)
	Class time/details on ELMs	ONLINE

BSCI348R **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.

(Sponsoring Dept.: CBMG). An opportunity for students interested in microbiology to pursue a research project in an off-campus lab. The student must see the instructor and complete an information sheet found on the web site, prior to enrolling in the course. Web site: https://go.umd.edu/SqU

I101	David Straney	Seats (Total: 5)
	Contact instructor or department for details.	

BSCI353 **Principles of Neuroscience**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (BSCI207, BSCI330). Corequisite: PHYS122, PHYS142, or PHYS132. Credit only granted for: BSCI353 or NEUR306.

Principles of nervous system function, ranging from molecular and cellular basis of neuron function through nervous system integration.

WB11	Chan Lin	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

BSCI361 **Principles of Ecology**

Credits: 4

Grading Method: Regular, Pass-Fail

Prerequisite: BSCI160 and BSCI161; or BSCI106. And (MATH130, MATH136, or MATH140).

Basic principles of population, community, and ecosystem ecology. Use of these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.

WB11	Marcia Shofner	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

BSCI379G **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.

Contact department for information to register for this course.

BSCI399 **Biology Department Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

Contact department for information to register for this course.

BSCI399L **Biology Department Research; Biology Lab Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.

0101	Sara Lombardi	Seats (Total: 10)
	Contact instructor or department for details.	

BSCI433 **Biology of Cancer**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI222 and BSCI330; or permission of CMNS-Biological Sciences UG Program.

Causes and consequences of neoplastic transformations at the biochemical and cellular levels.

WB11	Carmen Cantemir-Stone	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

BSST Terrorism Studies Winter 2023

BSST338V **Special Topics in Terrorism Studies; Al-Qaeda, the Islamic State, and Global Jihadist Movements**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

A special topics course for students in the Global Terrorism Minor program. Topics that may be offered are Psychology of Terrorism; Development of Counterterrorism Policies and Programs; Terrorism and Popular Culture; Terrorism and the Media; International Perspective on Terrorism and Counterterrorism (Education Abroad); The Evolution of Hezbollah; Terrorism and Small Wars; Political Islam in the West.

This course provides a comprehensive look at global jihadist movements, with specific focus on the groups Al-Qaeda and the Islamic State. At the completion of this course, students will have an in-depth understanding of historical and contemporary jihadist movements and a better understanding of tools to counter such groups.

WB11	Jason Blazakis	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

BSST399N **Individual Study in Terrorism Studies; Social Network Analysis for Terrorism**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

An independent study course for students in the Global Terrorism Minor program.

Social networks are connections between nodes (actors) and links (connections between nodes). Social network analysis (SNA) is a process of studying those nodes and links with a systematic, quantitative approach to better understand how networks are constructed, what networks are capable of, and how networks can be disrupted. This course covers SNA using UCINET, a popular SNA tool to systematically understand terrorist connections in such way that allows for informed decisions on terrorist network disruption.

WB11	Michael Egnoto	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

BUSI Part-Time MBA Program Winter 2023

BUSI718B **Special Topics in Business; International Business**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Cross-listed with BMGT758J. Credit only granted for BUSI718B or BMGT758J.

WW01	Martin Dresner	Seats (Total: 45)
	Meets January 3, 2023 - January 20, 2023	
	TuTh 8:30pm - 10:00pm	ONLINE
	Class time/details on ELMs	ONLINE
WW02	Jeffrey Mund	Seats (Total: 45)
	Meets January 3, 2023 - January 20, 2023	
	TuTh 8:45pm - 10:15pm	ONLINE
	Class time/details on ELMs	ONLINE

BUSI718C **Special Topics in Business; Organizational Change**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Cross-listed with BMGT758K. Credit only granted for BUSI718C or BMGT758K.

	WW01	Myeong-Gu Seo **Meets January 3, 2023 - January 20, 2023** MW 6:30pm - 8:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE
	WW02	Sheetal Singh **Meets January 3, 2023 - January 20, 2023** MW 8:30pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BUSI718V **Special Topics in Business; Corporate Venturing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Cross-listed with BMGT758L. Credit only granted for BUSI718V or BMGT758L.

	WW01	Oliver Schlake **Meets January 3, 2023 - January 20, 2023** TuTh 6:30pm - 8:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE
	WW02	Oliver Schlake **Meets January 3, 2023 - January 20, 2023** TuTh 8:30pm - 10:00pm Class time/details on ELMs	Seats (Total: 50) ONLINE ONLINE

BUSI758D **Special Topics in Business; Business Decoded**

(Perm req)

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

Contact department for information to register for this course.

BUSI758L **Special Topics in Business; Corporate Structure and Law for Technology Managers**

(Perm req)

Credits: 1 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

For students in the Technology Management Certificate program only. In-person meetings on 12/17 and 1/21.

DC16	Justin Reyna **Meets December 12, 2022 - January 23, 2023** Sa 9:00am - 5:00pm Contact instructor or department for details.	Seats (Total: 50) Location: TBA

BUSI759 **Independent Study in Business**

(Perm req)

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

Contact department for information to register for this course.

BUSO Online MBA Program Winter 2023

BUSO714 **International Business**

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT794, BUSI761 or BUSO714.

The international business environment as it affects company policy and procedures. In-depth analysis and comprehensive case studies of the business functions undertaken in international operations.

SO31	Jon Crocker **Meets January 3, 2023 - January 20, 2023** MW 7:00pm - 8:30pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE
SO32	Jon Crocker **Meets January 3, 2023 - January 20, 2023** MW 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

BUSO758C **Special Topics in Business; Corporate Venturing**

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in business.

SO32	Oliver Schlake **Meets January 3, 2023 - January 20, 2023** MW 8:45pm - 10:15pm Class time/details on ELMs	Seats (Total: 30) ONLINE ONLINE

CBMG Cell Biology & Molecular Genetics Winter 2023

CBMG899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Doctoral Dissertation Research.

0121	Jeffrey DeStefano Contact instructor or department for details.	Seats (Total: 10)
0155	Volker Briken Contact instructor or department for details.	Seats (Total: 1)

CCJS Criminology and Criminal Justice Winter 2023

CCJS100 **Introduction to Criminal Justice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.

WB11	Xinyi Situ Class time/details on ELMs	Seats (Total: 40) ONLINE

CCJS225 **Responses to Violence**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSSP, SCIS

Conflict is unfortunately resolved through violence in a number of settings. It ranges from interpersonal to international in its scope. This course investigates the strengths and weakness of a number of resolutions to reducing violence over the course of history using both state centered and informal control.

WB11	Kyle Dorsey Class time/details on ELMs	Seats (Total: 40) ONLINE

CCJS342 **Corrections**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department. Credit only granted for: CCJS342 or CCJS452.

Examination of the American correctional system. Identification of historical and contemporary themes, issues, and trends. Evaluation of correctional policies, practices and research.

Please note, for Winter Term, restrictions will not apply.

WB11	Justine Madoo	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

CCJS359 **Field Training in Criminology and Corrections**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.

Prerequisites: (CCJS 105 or CRIM 220) and (CCJS 350 or CRIM 450), majors only and permission of department.

Contact department for information to register for this course.

CCJS360 **Victimology**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105.

Overview of the history and theory of victimology. Analysis of victimization patterns with special emphasis on types of victims and crimes. The interaction between victims of crime and the criminal justice system with respect to the role of the victim and the services offered to the victim.

WB11	Cortney Fisher	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

CCJS398 **Law Enforcement Field Training**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Supervised, structured and focused field training in law enforcement agencies.

Prerequisite: junior standing. Majors only.

Contact department for information to register for this course.

CCJS451 **Crime and Delinquency Prevention**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CCJS105 and CCJS300.

Methods and programs in prevention of crime and delinquency.

WB11	Brett Lacey	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

CCJS613 **Criminal Justice System in China**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Criminology and Criminal Justice Professional Master's Program in Nanjing China. Credit only granted for: CCJS678G or CCJS613. Formerly: CCJS678G.

The main contents of this course include: the overall characteristics of the Chinese judicial system, the horizontal comparison of the judicial system between China and the United States, the investigation system, the pre-trial detention system, the defense system, the prosecutorial system, the trial system, the sentencing system, the correction and community correction system, as well as the minor judicial system in the criminal justice system of China.

Contact department for information to register for this course.

CCJS614 **Criminal Law**

Credits: 3 Grading Method: Regular, Audit

Restriction: Students enrolled in the CCJS Masters Program in China. Credit only granted for: CCJS614 or CCJS678F. Formerly: CCJS678F.

Chinese criminal law and its interpretation, principles, and methods.

CH01	Michael Dravis, Mengxue Li	Seats (Total: 30)
	Contact instructor or department for details.	

CCJS651 **Seminar in Criminology**

Credits: 3 Grading Method: Regular, Audit

Formerly: CRIM651.

Analysis of significant recent issues in Criminology.

Contact department for information to register for this course.

CHBE Chemical and Biomolecular Engineering — Winter 2023

CHBE899 **Doctoral Dissertation Research; Chemical Engineering**

(Perm req)

Credits: 1-8 Grading Method: Sat-Fail

0141	Akua Asa-Awuku	Seats (Total: 20)
	Contact instructor or department for details.	

CHEM Chemistry — Winter 2023

CHEM471 **Techniques in Pulse NMR**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: CHEM241 and CHEM242; or CHEM247. Recommended: CHEM460. Restriction: Senior standing or higher. Additional information: Persons with heart pacemakers and/or metal implants cannot take the course due to potential health hazards.

NMR techniques to operate, adjust, and calibrate the spectrometers and acquire and process NMR data in one and two dimensional NMR applications.

0101	Fu Chen TuTh 11:00am - 1:05pm WF 9:00am - 12:00pm	Seats (Total: 8) ONLINE CHM B0208A	 Lab
0102	Fu Chen TuTh 11:00am - 1:05pm WF 1:00pm - 4:00pm	Seats (Total: 7) ONLINE CHM B0208A	 Lab

CHEM612 **Scientific Presentations**

Credits: 1 Grading Method: Sat-Fail

Prerequisite: CHEM611.

Workshops will cover all aspects of giving scientific presentations. Each student will give a presentation based oon the topic of his/her final paper in CHEM611. Presentations will be critiqued by peers and faculty members.

0101	Neil Blough MTuWThF 10:00am - 10:50am	Seats (Total: 40) CHM 1228

CINE Cinema and Media Studies Winter 2023

CINE245 **Film Form and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU

Cross-listed with: ENGL245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

WB11	Sara Faradji Class time/details on ELMs	Seats (Total: 25) ONLINE

CINE319L **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; ANIMATION ON TV**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.

Examines the history of animated works designed specifically for the television medium. Cross-listed with SLLC368L. Credit only granted for: CINE319L, SLLC368L, or FILM319L.

WB11	Paul Cote	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

CINE329D **Special Topics in National/International Cinemas; Action, Adventure, and Spectacle Film in World Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Critical study of some of the most important examples of action, adventure, and spectacle cinema from the international and transnational perspectives. Exploration of the historical, esthetic, generic, institutional, and political significance of these films. Cross-listed with SLLC368D. Credit only granted for: CINE329D, SLLC368D, or FILM329D.

WB11	Jason Kuo	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

CINE359C **Special Topics in Genres/Auteurs/Cinema Movements; Disaster Cinema**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Crosslisted with SLLC368K. Credit only granted for CINE359C or SLLC368K. Exploration of disaster films in Hollywood and global cinema during the past century. The course will examine disaster films, such as Godzilla, King Kong, and Contagion, as a form of cinema's critical encounter with war, colonialism, and scientific development.

WB11	Daniel Richter	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

CINE359T **Special Topics in Genres/Auteurs/Cinema Movements; The Suspense Thriller in World Cinema**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.

Crosslisted with SLLC368N. Credit only granted for CINE359T or SLLC368N. Through screenings, readings, and discussions, this online course offers students the opportunity to examine major suspense thriller films in world cinema. We will screen films from different countries in a spectrum of sub-genres (such as detective thrillers, psychological thrillers, spy thrillers, police thrillers, science-fiction thrillers) in order to understand current artistic, critical, ideological, and theoretical debates in cinema and media studies.

WB11	Jason Kuo	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

CINE429A **Special Topics in National/International Cinemas; Serialized Television in the Arab World: Drama, Action, and Political Dissent**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.

Crosslisted with ARAB499G. Credit only granted for ARAB499G or CINE429A. This course focuses on the genre of serialized television in the Arabic-speaking countries, including miniseries, Ramadan soap operas, and the recent category of Netflix-produced Arabic shows. We will examine the history and core elements of this genre both globally and as pertaining to the Arab world. An important vehicle of cultural and artistic expression, Arabic television series interrogate pressing sociocultural and political issues - often in "real time." This course focuses on a selection of critically acclaimed television shows that offer commentary on such issues as national identity; religious fundamentalism and perceptions of ISIS; gender equality and the institution of marriage; and political and cultural regional tensions in the Arab world. All course materials are in English.

WB11	Valerie Anishchenkova	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

CLAS Classics Winter 2023

CLAS170 **Ancient Myths and Modern Lives**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HL | General Education: DSHU, SCIS

Cross-listed with: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.

What are myths and why do we tell them? What powers do myths have? We will tackle these questions by looking at the enduring and fascinating myths from ancient Greece and Rome. In addition to studying how they shaped ancient societies, we will also look at their modern influence and reflect upon the power that myths still hold in our contemporary world. Taught in English.

WB11	Edward Parker	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

CLAS276 **Are We Rome?**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSHU, SCIS

Credit only granted for: CLAS276 or CLAS289A. Formerly: CLAS289A.

America, from its very origins as an independent nation, saw itself as the new Rome: its system of government is built on Roman precedents, its national buildings look as if they came from the Roman Forum, and its leisure activities take us to stadiums modeled on the Colosseum. America's relationship to Rome, however, raises its greatest anxiety: will America fall as Rome did? In 1776, the year of American independence, Edward Gibbon published his History of the Decline and Fall of the Roman Empire; America has been thinking about the trajectory of its history alongside Rome's from the very beginning.

WB11	Gregory Staley	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

CLAS314 **Ancient Greek & Roman Cultures in Italy**

Credits: 3 | Grading Method: Regular

Credit only granted for: CLAS308G, CLAS314, or ARTH369D. Formerly: CLAS308G.

A study abroad course examining ancient Greek and Roman society in Italy through direct contact with original cultural sites, monuments, and museum collections in the city of Rome and the Bay of Naples area, including Pompeii, Herculaneum, and Paestum. Topics of lectures and discussions include ancient history, archaeology, art, and architecture, as well as daily life in antiquity, urbanism, the illicit trade in antiquities, and the preservation of cultural heritage.

This introductory course will examine the ancient Greeks and Romans in Italy through investigation of significant sites, monuments and museum collections in Rome and the Bay of Naples area. The essence of the course is virtual site visits that bring students into contact with original artifacts and monuments through which we may understand these ancient cultures.

Contact department for information to register for this course.

CLAS488G **Independent Study in Classical Civilization; Ancient Greek & Roman Cultures in Italy**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

This introductory course will examine the ancient Greeks and Romans in Italy through investigation of significant sites, monuments and museum collections in Rome and the Bay of Naples area. The essence of the course is virtual site visits that bring students into contact with original artifacts and monuments through which we may understand these ancient cultures.

Contact department for information to register for this course.

CLAS688G **Special Topics in Classical Civilization; Ancient Greek & Roman Cultures in Italy**

Credits: 3 Grading Method: Regular

This introductory course will examine the ancient Greeks and Romans in Italy through investigation of significant sites, monuments and museum collections in Rome and the Bay of Naples area. The essence of the course is virtual site visits that bring students into contact with original artifacts and monuments through which we may understand these ancient cultures.

Contact department for information to register for this course.

CLFS Chemical and Life Sciences Winter 2023

CLFS608 **Seminar in Current Topics in Chemical and Life Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS608A **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.

Contact Dr. Brett Kent (bkent@umd.edu) to establish a mentor; and then contact the Office of Extended Studies (oes@umd.edu) to register.

Contact department for information to register for this course.

CLFS609B **Special Topics; The Biology of Reproduction**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

PLC1	Janet Norcross **Meets November 28, 2022 - February 17, 2023** Class time/details on ELMs	Seats (Total: 15) ONLINE

CLFS609F **Special Topics; Principles of Paleobiology**

Credits: 3 Grading Method: Regular, Audit

Individual instruction course. Contact Program Director or instructor before registering.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

PLC1	Bretton Kent **Meets November 28, 2022 - February 17, 2023** Class time/details on ELMs	Seats (Total: 15) ONLINE

CLFS619A **Special Topics in Chemistry; Molecular Spectroscopy**

Credits: 3 Grading Method: Regular, Audit

Topics of current interest and special importance.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

PLC1	Marjan Alaghmand **Meets November 28, 2022 - February 17, 2023** Class time/details on ELMs	Seats (Total: 15) ONLINE

CLFS630 **Principles of Transmission Genetics: A Historical and Modern Perspective**

Credits: 3 Grading Method: Regular, Audit

Examines the origins of modern genetics, model genetic systems, and the role of chromosomes in vertical transmission of genetic information from parent to offspring. Classical gene mapping, population genetics and the various applications of modern genetics will also be studied.

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact oes@umd.edu.

Click here for program information.

PLC1	Nancy Trun	Seats (Total: 15)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE

CMSC Computer Science Winter 2023

CMSC388A **Special Topics in Computer Science; Introduction to Web Application Front End Development**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science.

Prerequisite: CMSC330. Restriction: permission of department. Questions about the course should be directed to Andrej Rasevic at arasevic@cs.umd.edu

WB11	David Mount	Seats (Total: 100)
	Class time/details on ELMs	ONLINE

CMSC388B **Special Topics in Computer Science; Introduction to Web Application Back End Development**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science.

Prerequisite: CMSC330. Restriction: permission of department. Questions about the course should be directed to Andrej Rasevic at arasevic@cs.umd.edu

WB11	David Mount	Seats (Total: 100)
	Class time/details on ELMs	ONLINE

CMSC388T **Special Topics in Computer Science; Introduction to Git, Github and Project Management Tools**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science.

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250; and permission of CMNS-Computer Science department.

WB11	Cliff Bakalian	Seats (Total: 32)
	Class time/details on ELMs	ONLINE

CMSC389Z **Special Topics in Computer Science; Network Management and Programming in a Linux Environment**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.

Prerequisite: Minimum grade of C- in CMSC216. Network management and programming in a Linux environment. Topics include using network management commands, capturing and inspecting packets, building and using testbeds, and writing simple TCP/IP applications. This course focuses on tools, rather than network protocols, and complements the material in CMSC417. Students will need access to a Linux environment; a virtual machine is sufficient for the work in this course.

WB11	Michael Marsh	Seats (Total: 40)
	MWF 11:00am - 12:30pm	ONLINE

CMSC398C **Special Topics in Computer Science; Best Practices for Professional Programmers**

(Perm req)

Credits: 1 Grading Method: Regular

Seminar courses that allow students to pursue new and emerging areas of Computer Science.

Principles of design and practices for actual implementation in Java code that result in easy maintenance, comprehension by others, modification, and debugging. How to use the five SOLID principles. Naming, formatting, and structural conventions for clean, readable code that runs. Approaches to debugging code that won't compile or isn't running properly. Prerequisite: Minimum grade of C- in CMSC131 or permission of instructor; and permission of CMNS-Computer Science department.

0101	Stevens Miller	Seats (Total: 40)
	MWF 12:45pm - 2:15pm	PHY 0405

CMSC498A **Selected Topics in Computer Science**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed

Contact department for information to register for this course.

CMSC499A **Independent Undergraduate Research**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

Contact department for information to register for this course.

CMSC798 **Master's Non-Thesis Research**

Credits: 1 Grading Method: Regular

Contact department for information to register for this course.

CMSC898 **Pre-Candidacy Research**

Credits: 1-3 Grading Method: Regular

Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students.

Contact department for information to register for this course.

CMSC899 **Doctoral Dissertation Research**

Credits: 1 Grading Method: Sat-Fail

Contact department for information to register for this course.

COMM Communication Winter 2023

COMM107 **Oral Communication: Principles and Practices**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.

A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.

WB11	Neha Kamran MTuWTh 1:00pm - 4:30pm	Seats (Total: 19) ONLINE
WB12	Yumin Yan MTuWTh 1:00pm - 4:30pm	Seats (Total: 19) ONLINE
WB13	Faith Otchere MTuWTh 9:00am - 12:30pm	Seats (Total: 19) ONLINE
WB14	Miriam Komuhendo MTuWTh 9:00am - 12:30pm	Seats (Total: 19) ONLINE
WB15	Delight Agboada MTuWTh 1:00pm - 4:30pm	Seats (Total: 19) ONLINE
WB16	Tatenda Mashanda MTuWTh 5:00pm - 8:30pm	Seats (Total: 19) ONLINE
WB17	Jiawen Zhang MTuWTh 5:00pm - 8:30pm	Seats (Total: 19) ONLINE

COMM200 **Critical Thinking and Speaking**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.

Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.

WB11	Megu Itoh	Seats (Total: 19)
	Class time/details on ELMs	ONLINE

COMM288 **Communication Internship**

(Perm req)

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.

I101	Julie Gowin	Seats (Total: 10)
	Contact instructor or department for details.	

COMM301 **Rhetorical Theories**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: COMM130, COMM250; and one course from STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one course from COMM107, COMM200, or COMM230; and must have completed or be concurrently enrolled in COMM304. Restriction: Must be in the Communication major. Credit only granted for: COMM301 or COMM401.

Explores the idea of rhetoric, from antiquity to digitality. Rhetoric, as an art of moving bodies, is central to democratic self-governance: only through persuading each other can we develop a shared vision of a just and desirable future. This course tracks the genesis of rhetorical theory in the ancient world, 20th-century struggles against fascist rhetoric, and contemporary extensions of rhetoric in digital media ecologies.

Restriction: Restricted to COMM majors only.

WB11	Jeremy Grossman	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

COMM324 **Communication and Gender**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHU, DVUP

Explores how communication shapes constructions of gender, sex, sexuality and other identity markers. Topics include issues of oppression, identity, and power and social, political, and economic situations and examines how these issues impact our daily lives.

WB11	Ari Perez Montes	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

COMM330 **Argumentation and Public Policy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.

WB11	Divine Aboagye	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

COMM360 **The Rhetoric of Black America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.

WB11	Daviana Fraser	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

COMM377 **Digital Media in London**

Credits: 3 Grading Method: Regular General Education: DVUP

Credit only granted for: COMM369D or COMM377. Formerly: COMM369D.

Provides students with skills in production practice while also incorporating theory and cultural studies. Students are challenged to understand societal problems around economy, race, gender, identity and power and to extend that exploration by building projects that utilize high demand skills in the digital communication and documentary professions. Students will write, record voice over, interview people, and build projects with compelling narrative structure. The projects will be an important component of their portfolio when applying to graduate school or their first professional efforts post-graduation. Classroom discussions will contain balance between practical instruction and critical discussion built around racial, social, and economic structures and systems.

Contact department for information to register for this course.

COMM382 **Essentials of Intercultural Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DVCC

Credit only granted for: COMM382 or COMM482.

Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.

WB11	Umisha Kc	Seats (Total: 25)
	WTh 9:00am - 12:30pm Class time/details on ELMs	ONLINE ONLINE

COMM385 **Influence**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP, SCIS

Credit only granted for: COMM385 or COMM498I (Spring 2014). Formerly: COMM498I (Spring 2014).

Explores contemporary theories of influence and their implications for communication practice. Topics include power and influence, logical theory, rhetorical theory, persuasion theory, framing theory, social influence theory, and propagation of influence in mediated social networks.

WB11	Carina Zelaya	Seats (Total: 30)
	MTuWTh 1:00pm - 4:30pm	ONLINE

COMM386 **Experiential Learning**

(Perm req)

Credits: 3-6 | Grading Method: Regular, Pass-Fail | General Education: DSSP

Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.

Supervised internship experience with communication professionals. Relation of academic training to professional experience.

Hours are completed at internship site.

I101	Julie Gowin	Seats (Total: 20)
	Contact instructor or department for details.	

COMM388 **Communication Practicum**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail

Supervised professional-level practice in communication.

Contact department for information to register for this course.

COMM488I **Communication Portfolio Project; Strategic Interviewing for the Career You Want**

Credits: 1 | Grading Method: Regular

Preparation of the professional communication portfolio.

This course introduces students to advanced techniques in interviewing for job opportunities and career progression. This online course focuses on the dynamics of the interview process, the communication theories and best practices behind influence and persuasion, and the communication aptitudes and skills that distinguish top candidates.

WB11	Drew Ashby-King	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

COMM498A **Seminar; Black Discourse in Digital Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Present-day communication research.

Examines the connections between black discourse, oral culture, and traditional media with new digital media technology. Various methods, theoretical approaches, and tools for studying social media and online communication. Crosslisted with AASP498Q. Credit only granted for COMM498A or AASP498Q.

WB11	Catherine Steele	Seats (Total: 30)
	Th 5:00pm - 8:30pm	ONLINE
	Class time/details on ELMs	ONLINE

DANC Dance Winter 2023

DANC200 **Introduction to Dance**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HA, D General Education: DSSP

A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.

WB11	Gerson Lanza Ruiz	Seats (Total: 12)
	MTuWThF 1:00pm - 4:00pm	ONLINE

DANC689M **Special Topics in Dance; Sound and Creative Process**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Special Topics in dance theory, research or creative projects.

Participants will engage in creative sound and embodied-process frameworks related to the work of the Clarices Artists in Residence, slowdanger. Course activities will focus on demystifying and understanding sound technology for participants use in their own respective artistic processes, culminating in the creation of interdisciplinary works that utilize sound technology. Cross-listed with TDPS458M and THET669E.

0101	Samuel Crawford	Seats (Total: 12)
	MTuWTh 10:00am - 2:00pm	PAC 1908

DANC698 **Independent Study in Dance**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Directed independent study in theoretical topics.

WB11	Maura Keefe	Seats (Total: 3)
	Class time/details on ELMs	ONLINE

DANC699 **Thesis Writing Lab**

(Perm req)

Credits: 1 Grading Method: Regular, Audit

The final writing project in MFA dance degree demonstrates students' ability to write critically about their creative work in relation to the dance field at large. A successful written thesis demonstrates a familiarity with concepts from dance history and critical theory as well as an ability to analyze movement and choreography. During the thesis writing lab, each student organizes ideas and establishes individual goals for the written project.

0101	Maura Keefe	Seats (Total: 2)
	Contact instructor or department for details.	

DANC777 **Internship in Dance**

(Perm req)

Credits: 1-5 Grading Method: Regular

Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.

Internship in dance advocacy, administration, education, community building, choreography, or performance with an agency off campus and with a national or international profile.

0101	Maura Keefe	Seats (Total: 3)
	Contact instructor or department for details.	

DANC799 **Master's Thesis Project**

Credits: 1-6 Grading Method: Sat-Fail

WB11	Maura Keefe	Seats (Total: 1)
	Class time/details on ELMs	ONLINE

ECON Economics Winter 2023

The Department of Economics enforces course prerequisites. Students do not meet the course prerequisites will be administratively dropped from the course.

ECON200 **Principles of Microeconomics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Credit only granted for: ECON200, AREC240, or AREC250. Additional information: It is recommended that students complete ECON200 before taking ECON201.

Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.

WB11	Sebastian Montano Correa	Seats (Total: 60)
	Class time/details on ELMs	ONLINE

ECON201 **Principles of Macroeconomics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS

Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.

An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.

WB11	Michael Navarrete	Seats (Total: 60)
	Class time/details on ELMs	ONLINE

ECON305 **Intermediate Macroeconomic Theory and Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail

Prerequisite: Minimum grade of C- in ECON201 and ECON200. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON305 or ECON325.

Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.

WB11	Kanat Isakov	Seats (Total: 60)
	TuTh 6:00pm - 7:30pm	ONLINE
	Class time/details on ELMs	ONLINE

ECON306 **Intermediate Microeconomic Theory & Policy**

Credits: 3 | Grading Method: Regular, Pass-Fail

Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201. And 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140); or must have completed MATH220 with a minimum grade of C-. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.

Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.

WB11	Yu Yaow	Seats (Total: 60)
	MTuWTh 1:00pm - 3:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ECON315 Economic Development of Underdeveloped Areas

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON315 or ECON416.

Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development.

WB11	Tereza Varejkova	Seats (Total: 25)
	TuWTh 11:00am - 1:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ECON414 Game Theory

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT400). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science). Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.

Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.

WB11	Sarah Webb	Seats (Total: 35)
	TuTh 10:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

ECON418M Economic Development of Selected Areas; Middle East

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Economic and institutional characteristics of a specific geographic area are identified and discussed, and alternate strategies and policies for development are analyzed.

Prerequisites: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326) and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Analyzes patterns of economic and institutional development in the Middle East; assesses the general trends in economic growth, investment, and institutional changes; and examines specific issues such as population and human development, economics and politics of oil and trade, the structure of state and its role in economic development, financial markets and Islamic banking, and business environment.

WB11	Hossein Abbasi	Seats (Total: 30)
	MTuWTh 10:00am - 11:00am Class time/details on ELMs	ONLINE ONLINE

ECON461 Economics of Regulation and Anti-trust

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program.

Considers government intervention in economic activity of three types: antitrust policy, regulation of natural monopolies, and health safety regulation. Covers theoretical models, real-world policy applications, and empirical studies relevant to the impact of regulation.

Note: Each student will be required to meet online with the instructor one-on-one at least twice during the term.

WB11	Cindy Clement	Seats (Total: 28)
	TuTh 12:00pm - 1:15pm Class time/details on ELMs	ONLINE ONLINE

ECON642 Topics in Applied Macroeconomics

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department.

Focus is on applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, inflation and financial markets.

PR01	Arto Kovanen	Seats (Total: 22)	
	Meets November 28, 2022 - February 17, 2023		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion

Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact oes@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.

ECON644 **Empirical Analysis II: Introduction to Economic Models**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON643.

An introduction to econometric methods with applications to public policy analysis. Primary focus on application and interpretation of multiple regression analysis.

PR01	Razvan Vlaicu	Seats (Total: 22)	
	Meets November 28, 2022 - February 17, 2023		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion

Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact oes@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.

ECON672 **Program Analysis and Evaluation**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641 and ECON645.

Students study the tools used to evaluate the effectiveness of public policies. All evaluations have weaknesses, and some have more weaknesses than others. You will learn how to distinguish high from low quality evaluations. We will discuss the basic economics and econometrics of program evaluation, focusing on the application of methods used for causal inference and cost-benefit analyses in public policy contexts. We will examine published evaluation research with the intent of showing how the research does or does not lead to clear conclusions regarding program performance.

PR01	Samuel Rowe	Seats (Total: 22)	
	Meets November 28, 2022 - February 17, 2023		
	Th 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact oes@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON675 **Environmental Economics**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON645.

A study of the nature of environmental regulation focusing on U.S. environmental policies and policy debates.

PR01	Charles Griffiths, Paul Dockins	Seats (Total: 22)	
	Meets November 28, 2022 - February 17, 2023		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	Discussion
	Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact oes@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.		

ECON677 **International Trade and Applications**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: ECON641 and ECON644. Restriction: Must be in MS Applied Economics program; or with permission from the program director.

A mix of theory and empirical work. Students will analyze the causes and consequences of international trade. The course will cover a set of conceptual tools that are useful for understanding "globalization" and the usage of these tools to address interesting and important questions about how countries, firms, and workers respond to international trade.

PR01	Cristina Tello-Trillo	Seats (Total: 22)	
	Meets November 28, 2022 - February 17, 2023		
	Tu 6:45pm - 9:30pm Class time/details on ELMs	ONLINE ONLINE	 Discussion

Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact oes@umd.edu. This section will be mostly online, with weekly synchronous online meetings that occur within the noted timeframe. However, students are required to attend in-person proctored exams (midterm and final exam). The exams are the only in-person component of the course, and will be administered at 1400 16th Street, NW in Washington, DC.

ECON684 **Applied Time Series Analysis and Forecasting**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: ECON642; and ECON645. Restriction: Must be in M.Prof.Studies: Applied Economics program.

This course builds on the brief introduction to time series econometrics offered in ECON 645. Students will learn the theory of stationary processes and how it applies to econometric techniques for estimation and forecasting based on time series data. The techniques will be applied in macroeconomic, financial and business applications.

PR01	David Burk	Seats (Total: 22)	
	Meets November 28, 2022 - February 17, 2023		
	W 6:45pm - 9:30pm Class time/details on ELMs	Location: TBA ONLINE	 Discussion

Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact oes@umd.edu. This blended section will be mostly in-person, with weekly in-person meetings at the noted times and online discussions. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.

ECON698 **Selected Topics in Economics**

Credits: 3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ECON898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ECON899 **Doctoral Dissertation Research**

(Perm req) Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

EDCP Education Counseling and Personnel Services Winter 2023

EDCP498 Special Problems in Counseling and Personnel Services

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Available only to major students who have formal plans for individual study of approved problems.

0151	Candace Moore	Seats (Total: 5)
	Contact instructor or department for details.	

EDCP620 Introduction to Mental Disorders

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCP789W or EDCP620. Formerly: EDCP789W.

Understanding diagnosis and assessment of mental, addictive, and co-occurringmental/addictive disorders, using the diagnostic criteria of the most prevalent psychiatricdisorders as specified by the American Psychiatric Association Diagnostic and Statistical Manuals.

WB11	Samantha Reaves	Seats (Total: 36)
	TuTh 5:00pm - 9:00pm	ONLINE
	Class time/details on ELMs	ONLINE

EDCP665 Family and Social Support Systems

Credits: 3 Grading Method: Regular, Audit

Recommended: EDCP610.

Principles and methods useful for understanding the role of family support systems in counseling. Specialized skills for counseling impaired adults and their families.

There will also be a 15 hour counseling lab outside of class.

WB11	Ileana Gonzalez	Seats (Total: 20)	
	Meets January 4, 2023 - January 13, 2023		
	MTuWThF 10:00am - 3:00pm	ONLINE	
	Class time/details on ELMs	ONLINE	Lab

EDCP694 Student Leadership Development

Credits: 3 Grading Method: Regular, Audit

Credit only granted for: EDCP694 or EDCP789D. Formerly: EDCP789D.

Explores the development of leadership among college students including the study of leadership theory; a focus on how leadership is learned and developed; cultural dimensions of leadership; and exposure to the current national scene in leadership associations, programs, and resources.

WB11	Melissa Rocco	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
	Course outline and meeting details available on ELMS. Coursework is mostly asynchronous with 4 live online sessions 12:00-1:30pm ET on Jan 5, 9, 12, 17. Please contact instructor at mlrocco@umd.edu with questions.	

EDCP788 Advanced Practicum

Credits: 1-6 Grading Method: Regular, Audit

Individual supervision in one of the following areas: (a) individual counseling, (b) group counseling, (c) consultation, or (d) administration.

0151	Candace Moore	Seats (Total: 1)
	Contact instructor or department for details.	

EDCP789 Advanced Topics in Counseling and Personnel Services

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

EDCP789R Advanced Topics in Counseling and Personnel Services; College Teaching Seminar

Credits: 1-6 Grading Method: Regular, Audit

0101	Candace Moore	Seats (Total: 10)
	Contact instructor or department for details.	

EDCP798 Special Problems in Counseling and Personnel Services; Special Problems in Counseling and Personnel Services

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

Individual Instruction course: contact department or instructor to obtai n section number for winter term.

Contact department for information to register for this course.

EDCP798E Special Problems in Counseling and Personnel Services; Addressing Research Design for Latinx/as/os in Higher Education

(Perm req)

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.

WB11	Michelle Espino	Seats (Total: 5)
	Class time/details on ELMs	ONLINE

EDCP799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDCP888 Apprenticeship in Counseling and Personnel Services

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

EDCP888A Apprenticeship in Counseling and Personnel Services

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0170	Julie Park	Seats (Total: 1)
	Contact instructor or department for details.	

EDCP889 Internship in Counseling and Personnel Services

Credits: 1-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDCP898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDCP899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Sat-Fail

Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDHI Education Leadership, Higher Ed and International Ed — Winter 2023

EDHI488Q **Special Topics in Education Policy and Administration; Decolonial Approaches to Education Development and Research**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Heidi Bloom	Seats (Total: 20)
	TuTh 6:00pm - 8:00pm	CHE 2116
	Class time/details on ELMs	ONLINE

EDHI489 **Field Experiences in Education**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDHI788B **Special Topics in Education Policy and Administration; Leadership in Multicultural Teams for Successful Project Management**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Special and intensive treatment of current topics and issues in education policy and administration.

GC01	Cameron Busacca, Anne Spear	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

This course is open to undergraduate students by permission only. This course is for scholars and practitioners who work in a global context. Using multimedia dialogue, research, and case studies, we will explore the role of leadership in a global context. The course will focus on working in diverse teams, facilitating projects in a virtual, remote capacity, and leading project implementation. Applying a critical lens of leadership approaches, this three-week course develops your leadership skills in contributing to the success of project implementation of international initiatives. By working with an association in Burkina Faso, West Africa, students will engage in applied leadership training and reflect on the impact of their leadership approach on the potential success of a project. Class meets online 5:00-8:00pm EST on Tuesday Jan 3rd, Thursdays Jan 5th, 12th, and 19th. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement.

EDHI788K **Special Topics in Education Policy and Administration; The Quest to End Genocide Through Education**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Special and intensive treatment of current topics and issues in education policy and administration.

WB11	Annie Rappeport	Seats (Total: 10)
	MWF 5:00pm - 8:00pm	ONLINE
	Class time/details on ELMs	ONLINE

Course Meeting Days/Times: January 4, 6, 9, 11, 13, 18, 20

EDHI788Q **Special Topics in Education Policy and Administration; Decolonial Approaches to Education Development and Research**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Special and intensive treatment of current topics and issues in education policy and administration.

0101	Heidi Bloom	Seats (Total: 20)
	TuTh 6:00pm - 8:00pm	CHE 2116
	Class time/details on ELMs	ONLINE

EDHI798 **Special Problems in Education**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.

Contact department for information to register for this course.

EDHI888 **Apprenticeship in Education**

(Perm req)

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

0101	Sharon Fries-Britt Contact instructor or department for details.	Seats (Total: 5)
0135	Alberto Cabrera Casillas Contact instructor or department for details.	Seats (Total: 5)

EDHI889 **Internship in Education**

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDHI898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0114	Jing Lin Contact instructor or department for details.	Seats (Total: 2)

EDHI899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.

Contact department for information to register for this course.

EDSP Education, Special Winter 2023

EDSP210 **Introduction to Special Education**

Credits: 3 Grading Method: Regular, Audit General Education: DVUP

Restriction: Sophomore standing or lower. Credit only granted for: EDSP210, EDSP211 or EDSP470.

Characteristics and needs of individuals receiving special education and related services. Current issues and practices in special education.

WB12	Tori Page-Voth	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

EDSP220 **Disability in Community: Access, Accommodation, and Adaptation**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP, DVCC

Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.

WB11	Katryna Andrusik	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

EDSP376 **Fundamentals of Sign Language**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.

WB11	Dina Toulan	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
WB12	Elizabeth Martinez	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

EDSP470 **Introduction to Special Education**

Credits: 3 | Grading Method: Regular, Audit | General Education: DVUP

Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210, EDSP211 or EDSP470.

Designed to give an understanding of the needs of all types of exceptional children.

WB12	Tori Page-Voth	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

EDSP489 **Field Experiences in Special Education**

(Perm req)

Credits: 1-4 | Grading Method: Regular, Pass-Fail, Audit

Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.

Contact department for information to register for this course.

EDSP498 Special Problems in Special Education

Credits: 1-6 Grading Method: Regular, Pass-Fail, Audit

Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.

Contact department for information to register for this course.

EDSP601 Special Education for School Counselors

Credits: 3 Grading Method: Regular

Restriction: Must be in Counseling and Personnel Services (Master's) program. Credit only granted for: EDSP470 or EDSP601.

Designed to give school counseling students an understanding of the needs of children with disabilities, and the school-based services that they received. The course focuses on the school counselor's role in identifying and supporting children who have disabilities.

WB11	Dawn Martin	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

EDSP798 Special Problems in Special Education

Credits: 1-6 Grading Method: Regular, Audit

Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.

Contact department for information to register for this course.

EDSP799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

Registration required to the extent of six hours for Master's thesis.

Contact department for information to register for this course.

EDSP888 Apprenticeship in Special Education

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP888A Apprenticeship in Special Education; Apprenticeship in College Teaching

Credits: 3 Grading Method: Regular

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.

Contact department for information to register for this course.

EDSP889 **Internship in Special Education**

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

Contact department for information to register for this course.

EDSP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

EDSP899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.

Contact department for information to register for this course.

EMBA Executive MBA Program Winter 2023

EMBA759 **Independent Study**

Credits: 1-6 Grading Method: Regular

Independent study for Masters students in Business.

EC01	Robert Sheehan Contact instructor or department for details.	Seats (Total: 30)
EM01	Robert Sheehan Contact instructor or department for details.	Seats (Total: 5)

ENAE Engineering, Aerospace Winter 2023

ENAE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0106	Norman Wereley Contact instructor or department for details.	Seats (Total: 5)

ENCE Engineering, Civil Winter 2023

ENCE489I **Special Problems in Civil Engineering; Sustainability, Infrastructure Condition, and Safety**

Credits: 3 Grading Method: Regular

A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.

Contact department for information to register for this course.

ENCE689 Seminar

Credits: 1-16 Grading Method: Regular, Audit

0112	Peter Chang Contact instructor or department for details.	Seats (Total: 1)
0190	Gang-Len Chang Contact instructor or department for details.	Seats (Total: 5)

ENCE799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

0103	Qingbin Cui Contact instructor or department for details.	Seats (Total: 2)
0104	Ahmet Aydilek Contact instructor or department for details.	Seats (Total: 5)
0107	Bilal Ayyub Contact instructor or department for details.	Seats (Total: 5)
0108	Ali Haghani Contact instructor or department for details.	Seats (Total: 2)
0112	Peter Chang Contact instructor or department for details.	Seats (Total: 5)
0124	Gang-Len Chang Contact instructor or department for details.	Seats (Total: 5)
0153	Allison Reilly Contact instructor or department for details.	Seats (Total: 5)
0170	Allen Davis Contact instructor or department for details.	Seats (Total: 5)

ENCE899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Sat-Fail

0102	Peter Chang Contact instructor or department for details.	Seats (Total: 5)
0106	Gregory Baecher Contact instructor or department for details.	Seats (Total: 5)
0108	Ali Haghani Contact instructor or department for details.	Seats (Total: 2)
0120	Yunfeng Zhang Contact instructor or department for details.	Seats (Total: 2)
0121	Steven Gabriel Contact instructor or department for details.	Seats (Total: 5)
0124	Gang-Len Chang Contact instructor or department for details.	Seats (Total: 5)
0148	Lei Zhang Contact instructor or department for details.	Seats (Total: 5)

ENEE Electrical & Computer Engineering Winter 2023

ENEE131 **Technology Choices**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSSP, SCIS

An exploration of the positive and negative effects of technology on society, via diverse criteria to assess the relative well being of individuals and society; an examination of how society can help shape the future of technology and the tools that can be used to make wise technology choices.

WB11	Wesley Lawson MTuWThF 10:00am - 12:50pm	Seats (Total: 20) ONLINE

ENEE200 **Technology and Consequences: Engineering, Ethics, and Humanity**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: IE | General Education: DSHU, SCIS

What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.

0101	Nicole Mogul	Seats (Total: 20)	
	MTuWThF 10:00am - 11:50am	CCC 1105	
	MTuWThF 1:00pm - 2:50pm	CCC 1105	Discussion
WB11	Wesley Lawson	Seats (Total: 24)	
	MTuWThF 2:00pm - 3:50pm	ONLINE	
	MTuWThF 4:00pm - 5:50pm	ONLINE	Discussion

ENEE899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENES Engineering Science Winter 2023

ENES102 **Mechanics I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.

The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.

0101	Aris Cleanthous	Seats (Total: 45)
	MTuWThF 10:00am - 2:00pm	PHY 1204

ENES197 **The Fault in Our Data: What Counts and Who's Counting**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSSP, SCIS

Prerequisite: MATH113 or equivalent. Recommended: MATH115.

Quantitative data and analysis are key to understanding the shape of the world. In this course, we will use the tools of computational analysis to load, interrogate, visualize, and model datasets from dozens of data points to hundreds of thousands. We'll look at how computational methods can tell us when a movie is sexist, how wealth inequality can form, and how rumors spread like diseases. Then, you will find datasets of interest, write code to make sense of them, and share your findings with the world. No prior programming experience is required.

WB11	Brian Danielak, William Doane	Seats (Total: 40)	
	Class time/details on ELMs MTuWThF 5:00pm - 8:00pm	ONLINE ONLINE	 Discussion

ENES220 **Mechanics II**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.

Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.

WB11	Thomas Beigel	Seats (Total: 50)	
	Class time/details on ELMs MTuWThF 10:00am - 1:00pm	ONLINE ONLINE	 Discussion
	Examinations will be given from 10:00am- 1:00pm EST on Wednesday, 1/11 and Friday, 1/20. Students are required to either take the examination in-person at the University of Maryland or at an approved off-site test proctoring center. Contact the department at keystone@umd.edu for additional details.		

ENES221 **Dynamics**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.

Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

WB11	Patrick McAvoy	Seats (Total: 50)	
	Class time/details on ELMs	ONLINE	
	MTuWThF 11:00am - 1:00pm	ONLINE	Discussion

Examinations will be given from 11:00am- 1:00pm EST on Friday, 1/13 and Monday, 1/23. Students are required to either take the examination in-person at the University of Maryland or at an approved off-site test proctoring center. Contact the department at keystone@umd.edu for additional details.

ENES232 **Thermodynamics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE301, ENCH300, ENES232, ENME320, or ENME232. Formerly: ENME232 and ENME320.

Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.

0101	Catherine Hamel	Seats (Total: 45)
	MTuWThF 11:00am - 3:00pm	PHY 4221

ENES259T **Study Abroad Special Topics in Engineering II; Technology, Education, and Society: Ecuador in Context**

Credits: 3 Grading Method: Regular

Special topics course in engineering science taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENES317 **Introduction to Leadership in Engineering, Science, and Technology**

Credits: 3 Grading Method: Regular General Education: DSSP

Restriction: Must be in the Minor in Global Engineering Leadership(#EN09). Additional information: Students not meeting restriction requirements should add themselves to the course holdfile. Restrictions DO NOT apply to winter and summer terms.

Develop a comprehensive overview and introduction to leadership and organizational development. Students will reflect on their own leadership experiences, develop a strong foundational knowledge of leadership theory, and advance their capacities in effectively leading teams. Students will connect leadership theory to practice by engaging in case study analysis and critique leadership practices enacted within engineering and technology settings. Students will complete self-assessments to better understand their own leadership strengths and refine their approaches to leadership by incorporating theories covered in this course.

Contact department for information to register for this course.

ENES458A **Topics in International Engineering; Engineers Without Borders: Leadership Seminar**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES458I **Topics in International Engineering; Engineers Without Borders-Leadership Seminar**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

A variety of topics related to engineering in a global context are discussed including cultural aspects, cross-cultural communication, international standards and law, and engineering and technology issues, business behavior, attitudes and values of selected countries and regions.

Contact department for information to register for this course.

ENES460 **Fundamentals of Technology Start-Up Ventures**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES460, BMGT461, SMLP470 or HLMN470. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Fundamental aspects of creating, organizing, funding, managing, and growing a technology startup venture. This multidisciplinary course will draw on management, business, legal, financial, as well as technical, concepts. Students form teams and develop a business plan for a technology company, based on each team's own business idea and then present the plan to a panel of outside experts.

For winter term, permission restrictions will not apply. The course is open to all students.

WB11	James Green	Seats (Total: 65)
	Class time/details on ELMs	ONLINE

ENES463 **Strategies for Managing Innovation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES463, BMGT467, SMLP473 or HLMN472. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.

Emphasizes how the technology entrepreneur can use strategic management of innovation and technology to enhance firm performance. Examines the process of technological change, the ways that firms come up with innovations, the strategies that firms use to benefit from innovation, and the process of formulating technology strategy. Provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

WB11	Sharon Flank	Seats (Total: 75)
	Class time/details on ELMs	ONLINE

ENES472 **Leading Global Teams and Engaging Across Cultures in Business, Engineering, and Technology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Restriction: Sophomore standing or higher; must be a minor in Global Engineering Leadership (#EN09), Global Poverty (#AG06), Global Terrorism Studies (#BS07), or International Development and Conflict Management (#BS02). Credit only granted for: ENES472, SLLC471, or SLLC473. Additional information: Students not meeting restriction requirements should add themselves to the course holdfile. Restrictions DO NOT apply to winter and summer terms.

Develop global leadership capacities and an understanding of the cultural aspects pertaining to industry and international business. In a globalized world, the ability to work, lead and communicate in culturally diverse settings has become a core component to leadership. Through real-world examples, research, and simulations, students will increase their self-awareness and understanding of culture and how culture influences attitudes, behaviors, and practices at the individual, organizational, or societal levels. Students will develop the skills necessary to navigate, negotiate, and lead cross-cultural engagements and teams. The course content is relevant and applicable to anyone interested in developing cross-cultural leadership competencies and cultivating a global mindset.

Contact department for information to register for this course.

ENES663 **Strategies for Managing Innovation**

Credits: 3 | Grading Method: Regular, Audit

Restriction: Must be in the Product Management or the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies programs; or permission of Maryland Technology Enterprise Institute.

Emphasizes how innovative leaders can use strategic management of innovation and technology to enhance firm performance. It helps students to understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and the process of formulating technology strategy. It provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.

PLM1	Sharon Flank	Seats (Total: 50)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll.	

ENES670 **Financial Management and New Venture Financing**

Credits: 3 | Grading Method: Regular

Restriction: Must be in the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.

Provides the essential tools and skills to build a strong financial foundation for a new technology venture. Examines accounting principles as well as methods for keeping firm financial control of the venture. Discusses navigating the multitude of financial barriers that may block entrepreneurial success, as well as how to raise the right amount of capital at the right time from the right source.

PLM1	Michael Pratt	Seats (Total: 25)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Technology Entrepreneurship may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll.	

ENES671 Legal Aspects of Entrepreneurship

Credits: 3 Grading Method: Regular

Restriction: Must be in the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.

Explores critical legal and business issues entrepreneurs face as they build and launch a new venture. Examines real world scenarios, and addresses the legal issues at all of the important junctures along the path to success. Significant attention placed on new venture formation, intellectual property management, and financing arrangements.

PLM1	Wilson White	Seats (Total: 25)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Technology Entrepreneurship may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll.	

ENES677 Data Analysis and Decision Making

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Product Management Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.

Provides a comprehensive understanding of making decisions under uncertainty for products, portfolios, and programs across various industries and environments. Focuses on the use of Bayesian methods for informing decisions on products and programs when directing experiments. Examines the testing of product ideas throughout the lifecycle, from customer discover, to product discovery, to product design and optimization, to channel testing and marketing for growth.

PLM1	Gregory Baecher	Seats (Total: 50)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll.	

ENGL English Winter 2023

ENGL245 **Film Form and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU

Cross-listed with: CINE245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.

Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.

Click here for more course information.

WB11	Sara Faradji	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENGL269M **Morocco: In the Footsteps of the Beat Generation**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DVCC

Cross-listed with: ARHU269A. Credit only granted for: ARHU269A or ENGL269M.

Educates students about the history, culture and socio-political situation in Morocco through the reading of fiction related to this country. The focus will be on the intersection of American and Moroccan culture and will cover film, music and literature. The American perception of the "orient" has historically been channeled through the French characterization of Arab societies in North Africa. This course aims to disentangle this western mythology from reality in Morocco. Some of the themes addressed will be globalization, colonialism, racism, orientalism, and women's oppression

Contact department for information to register for this course.

ENGL321 **Comics and the Graphic Novel**

Credits: 3 | Grading Method: Regular, Pass-Fail

Comics has become one of the most globally popular art forms of the twenty-first century, but it also has a rich history that stretches back to the eighteenth century, and arguably much earlier. This course will introduce students to the unique formal properties of comics and will survey the history of comics across national traditions, including texts drawn from the American, Franco-Belgian, and Japanese traditions. We will read across a range of genres and cultural registers--including newspaper strips, superhero comics, Underground comix, manga, the graphic memoir, and alternative comics. You will learn to analyze and write about the form and history of the medium.

WB11	Peter Witte	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

ENGL359F **Lesbian, Gay, Bisexual, and Transgender Film and Video**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU, DVUP

Restriction: Junior standing or higher. Cross-listed with: LGBT327. Credit only granted for: LGBT327 or ENGL359F.

Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Cross-listed with ENGL359F. Credit granted for LGBT327 or ENGL359F. Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Click here for more course information.

WB11	James Goodwin	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

ENGL369D **Australian Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, DVCC

Additional information: This is an Education Abroad course.

An immersion into Australian culture and history, this course will explore the literature, music, theater, and arts of Indigenous and contemporary Australia. Students will engage directly with matters of political and social concern, developing both awareness of cultural issues important to modern-day Australians and the skills needed to navigate those issues. Along the way, we will look back to the colonial founding of Australia as a British outpost and consider how modern Australia has emerged from a mixing of Western and Indigenous cultures.

Contact department for information to register for this course.

ENGL369N **New Zealand Literature and Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSHU, DVCC

Additional information: This is an Education Abroad course.

An immersion into the literature, history, and culture of New Zealand, this course will look back to the colonial founding of New Zealand as a British outpost, and to the strong Maori culture the British encountered when they arrived. Students will engage directly with matters of political and social concern, developing both awareness of cultural issues important to modern-day New Zealanders and the skills needed to navigate those issues. Along the way, we will consider how modern New Zealand has emerged from a mixing of Western and Indigenous cultures.

Contact department for information to register for this course.

ENGL369T **Special Topics in Study Abroad III; Cultures of Latin America-Readings on Society**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

ENGL391 **Advanced Composition**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.

GC01	Peter Grybauskas	Seats (Total: 19)
	Class time/details on ELMs	ONLINE
	A professional writing course exploring the life and works of JRR Tolkien, professor and author of The Lord of the Rings. Virtual visits with scholars and experts in Oxford, England, where Tolkien spent much of his life, offer a unique opportunity to learn about the writer's world and the intersections between his scholarship and his fantasy. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement.	
GC02	Peter Grybauskas	Seats (Total: 19)
	Class time/details on ELMs	ONLINE

ENGL393 **Technical Writing**

Credits: 3 Grading Method: Regular General Education: FSPW

Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.

Focuses on the writing of technical papers and reports.

WB10	Kristofer Reed	Seats (Total: 19)
	Class time/details on ELMs	ONLINE

WB11	Anthony Batts Class time/details on ELMs	Seats (Total: 19) ONLINE
WB12	Eric Bond Class time/details on ELMs	Seats (Total: 19) ONLINE
WB13	Nasim DarouieHaghighi Class time/details on ELMs	Seats (Total: 19) ONLINE
WB14	Zachary Frank Class time/details on ELMs	Seats (Total: 19) ONLINE
WB15	Carina Shi Class time/details on ELMs	Seats (Total: 19) ONLINE
WB16	Kathleen Orr Class time/details on ELMs	Seats (Total: 19) ONLINE
WB17	Catherine Bayly Class time/details on ELMs	Seats (Total: 19) ONLINE
WB18	Nicole Cuffy Class time/details on ELMs	Seats (Total: 19) ONLINE
WB19	Marina Ellis Class time/details on ELMs	Seats (Total: 19) ONLINE
WB20	Roberto Leon Class time/details on ELMs	Seats (Total: 19) ONLINE
WB21	Sarah Goodson Class time/details on ELMs	Seats (Total: 19) ONLINE
WB22	Erin Green Class time/details on ELMs	Seats (Total: 19) ONLINE
WB23	Pamela Orel Class time/details on ELMs	Seats (Total: 19) ONLINE
WB24	Andrew Howard Class time/details on ELMs	Seats (Total: 19) ONLINE

WB25	Aysha Jawed Class time/details on ELMs	Seats (Total: 19) ONLINE
WB26	Phillip Moses Class time/details on ELMs	Seats (Total: 19) ONLINE

ENGL478B **Selected Topics in Literature before 1800; Shakespeare and Film**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced study of key topics in literary works from earlier historical periods.

WB11	Liam Daley Class time/details on ELMs	Seats (Total: 20) ONLINE

ENGL699 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0104	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0105	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0106	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0163	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0164	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0165	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0166	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0167	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

0168	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0186	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0187	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0188	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0189	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
I105	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

ENME Engineering, Mechanical Winter 2023

ENME272 **Introduction to Computer Aided Design**

Credits: 2 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME414 or ENME272.

Fundamentals of CAD, using solid modeling packages (Pro/E, SolidWorks, and Autodesk Inventor). Two and three dimensional drawing. Dimensioning and specifications. Introduction of CAD based analysis tools. Students will complete a design project.

WB11	Mohammad Fazelpour MTuWF 9:00am - 12:00pm	Seats (Total: 42) ONLINE

ENME361 **Vibration, Controls and Optimization I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENES220, ENES221, and MATH246; and (MATH206 or ENME202). Restriction: Must be in Engineering: Mechanical program.

Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.

WB11	Joshua Radice MTuWThF 8:00am - 11:00am	Seats (Total: 53) ONLINE

ENME400 **Machine Design**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.

Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.

0101	Chandrasekhar Thamire	Seats (Total: 70)
	MTuWThF 11:00am - 3:00pm	PHY 1201

ENME407 **Sustainability, Climate Change and Renewable Energy Systems**

Credits: 3

Grading Method: Regular, Pass-Fail

Prerequisite: PHYS260; or permission of ENGR-Mechanical Engineering department. Restriction: Students must have completed a minimum of 60 credits by the time they will enroll in this course.

Countries around the world are developing innovative and sustainable solutions that not only help to protect the environment from the threats of global climate change, but that also can improve human health and quality of life. In this course students will explore solutions to climate change, as well as geothermal and hydroelectric energy systems and their applications.

Contact department for information to register for this course.

ENME445 **Design for Reliability**

Credits: 3

Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher.

Failure prevention, accident prevention, design requirements analysis, designing right the first time, high system reliability, software reliability, manufacturing defect prevention, life cycle costs reduction, design reviews, managing the design for reliability, design trustworthiness, product durability, and writing good specifications are covered.

WB11	Reuel Smith, Baldev Raheja	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

ENME462 **Vibrations, Controls, and Optimization II**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: ENME361. Restriction: Permission of the Mechanical Engineering Department.

Continuation of ENME361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.

WB11	Munther Hassouneh	Seats (Total: 40)
	MTuWThF 8:00am - 11:00am	ONLINE

ENME488 **Special Problems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.

Contact department for information to register for this course.

ENME799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENME808 **Advanced Topics in Mechanical Engineering**

Credits: 2-3 Grading Method: Regular, Audit

Contact department for information to register for this course.

ENME898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

ENME899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENPM Engineering, Professional Masters Winter 2023

ENPM808 **Advanced Topics in Engineering**

Credits: 1-3 Grading Method: Regular, Audit

Advanced topics selected by the faculty for students in the professional master of engineering program. May be taken for repeated credit when identified by topic title.

CP01	George Syrmos	Seats (Total: 10)
	Contact instructor or department for details.	
DE01	George Syrmos	Seats (Total: 1)
	Class time/details on ELMs	ONLINE

ENRE Reliability Engineering Winter 2023

ENRE489K **Special Topics in Reliability Engineering; Design for Reliability**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics of current importance in reliability engineering.

Pre-requisite: Junior standing.

ER01	Baldev Raheja MTuWThF 9:00am - 12:00pm	Seats (Total: 10) ONLINE
RE01	Baldev Raheja MTuWThF 9:00am - 12:00pm	Seats (Total: 10) ONLINE

ENRE799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

ENRE899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0102	Mohammad Modarres Contact instructor or department for details.	Seats (Total: 10)

ENSE Systems Engineering Winter 2023

ENSE799 **Systems Engineering Thesis**

Credits: 1-6 Grading Method: Sat-Fail

The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.

0102	John Baras Contact instructor or department for details.	Seats (Total: 1)
0116	Jeffrey Herrmann Contact instructor or department for details.	Seats (Total: 50)
0125	Gang Qu Contact instructor or department for details.	Seats (Total: 10)

ENST Environmental Science and Technology Winter 2023

ENST389 **Internship**

Credits: 3 Grading Method: Sat-Fail

Credit will be granted for practical work carried out by students placed in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.

0101	Jose-Luis Izursa	Seats (Total: 10)
	Contact instructor or department for details.	

ENST499 **Special Topics in Environmental Science and Technology**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.

0104	Jose-Luis Izursa	Seats (Total: 2)
	Contact instructor or department for details.	

ENTM Entomology Winter 2023

ENTM730 **Plant Diagnostics**

Credits: 3 Grading Method: Regular

The first step to managing pest and disease problems in plants is an accurate diagnosis. In this course, students will learn about the various biotic (living) and abiotic (nonliving) factors that can contribute to plant problems, and how to evaluate evidence and distinguish between these factors to arrive at an accurate diagnosis.

PLE1	Karen Rane	Seats (Total: 8)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in the Graduate Program in Applied Entomology. All other graduate students must request permission. Contact oes@umd.edu.	

ENTM747 **Pollinator Health**

Credits: 3 Grading Method: Regular

Students will be given an overview of the importance of insect pollinators and threats to their populations. Emphasis will be placed on managed pollinators, particularly but not exclusively honey bees, where disease mitigation plans will be highlighted.

PLE1	Noble Noble	Seats (Total: 8)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in the Graduate Program in Applied Entomology. All other graduate students must request permission. Contact oes@umd.edu.	

ENTM769 **Capstone: Scholarly Paper**

Credits: 3 Grading Method: Regular, Sat-Fail

An examination of the current literature on topics related to the field of applied entomology. The Capstone Course provides the opportunity to apply and integrate best practices based on current research in the form of a formal scholarly paper.

PLE1	Cerruti Hooks	Seats (Total: 2)
	Meets November 28, 2022 - February 17, 2023	
	Class time/details on ELMs	ONLINE
	Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact oes@umd.edu.	

EPIB Epidemiology and Biostatistics Winter 2023

EPIB301 **Epidemiology for Public Health Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits. Cross-listed with: HLTH301. Credit only granted for: EPIB301 or HLTH301.

An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.

WB11	Jamie Trevitt	Seats (Total: 40)
	Class time/details on ELMs	ONLINE
	Restricted to College Park students in the Public Health Science major.	
WB12	Jamie Trevitt	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
	Restricted to students in the Behavioral and Community Health major.	

EPIB798 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

EPIB799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

EPIB898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
0102	Dushanka Kleinman Contact instructor or department for details.	Seats (Total: 5)
0103	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0104	Typhanye Dyer Contact instructor or department for details.	Seats (Total: 5)
0105	Hongjie Liu Contact instructor or department for details.	Seats (Total: 5)
0106	Quynh Nguyen Contact instructor or department for details.	Seats (Total: 5)
0108	Mei-Ling Lee Contact instructor or department for details.	Seats (Total: 5)
0109	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0120	Cher Dallal Contact instructor or department for details.	Seats (Total: 5)
0121	Xin He Contact instructor or department for details.	Seats (Total: 5)
0122	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

0131	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0132	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0133	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0134	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0135	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0136	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)

EPIB899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Sat-Fail

0101	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0102	Dushanka Kleinman Contact instructor or department for details.	Seats (Total: 5)
0103	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0104	Typhanye Dyer Contact instructor or department for details.	Seats (Total: 5)
0105	Hongjie Liu Contact instructor or department for details.	Seats (Total: 5)
0106	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0108	Mei-Ling Lee Contact instructor or department for details.	Seats (Total: 5)
0109	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)

0120	Cher Dallal Contact instructor or department for details.	Seats (Total: 5)
0121	Xin He Contact instructor or department for details.	Seats (Total: 5)
0122	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
0131	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0132	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0133	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0134	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0135	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0136	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)

FMSC Family Science Winter 2023

FMSC111 **Credit Cards and College Students**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Recommended: Moderate level of computer literacy, especially Internet and ELMS. Reliable computer and Internet access. Credit only granted for: FMSC111, FMSC341 or FMSC498D. Formerly: FMSC498D.

Provides college students with factual information about basic money management skills, emphasizing the responsible use of credit, specifically credit cards. Topics will include financial goals, spending plan, wise use of credit, debt management, consumer credit protection, and ID Theft. Online lessons will include video clips and interactive class activities. Students will learn the basics to build a strong financial future.

WB11	Jesse Ketterman Class time/details on ELMs	Seats (Total: 40) ONLINE

FMSC123 **Personal Financial Literacy: From Distress to Success**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Exploring strategic thinking, career, education, financial planning during college years as the foundation for success in living a meaningful life. While introducing relevant institutions and tools & techniques that are critical for financial planning, this course applies value-based goal setting and strategic planning that inform individuals' paths for a successful career, educational attainment, and optimum (mental, physical and financial) wellbeing throughout their life cycle. The course particularly emphasizes the individual's responsibility of living in an institution rich society, where, continuous learning, understanding institutions, rational decision-making, valuing relationships and networking, early career development, record keeping, budgeting, generating income and wealth, purposeful spending, saving and investing, tax planning, appropriate use of loans, risk taking and insurance, and retirement planning are well rewarded and ensure the optimum use of college years and the rest of life-course.

WB11	Manouchehr Mokhtari	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

FMSC190 **Man Up! Where Are The Fathers?**

Credits: 3 | Grading Method: Regular | General Education: DSHS, SCIS

An examination of changing fatherhood roles, health, and inequality in diverse families. Focus will be on masculinities and disparities among men by race and class; provider role expectations; and trauma and violence faced by men in contemporary society.

WB11	Kevin Roy	Seats (Total: 45)
	Class time/details on ELMs	ONLINE

FMSC260 **Couples, Marriage, and Families: Intimate Relationship Across the Life Course**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Covers the different aspects of couple relationships and family life. This includes common problems in couple relationships, and resources to strengthen couple and family relationships. You will also learn about stages of relationships, theories of love and family, policy related to couples and family formation, and how research is conducted with couples and families. Together, we will discuss and explore issues that couples and families face in modern times and will consider how many of these issues have changed due to policy, technology, attitudes, and a variety of other societal factors that impact relationships in the 21st century. You will also learn important methods of strengthening current and future relationships.

For more information about this online class and requirements, click on this link and scroll down to the course.

WB11	Elise Resnick	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

FMSC341 **Personal and Family Finance**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.

Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.

For more information about this online class and requirements, click on this link and scroll down to the course.

WB11	Manouchehr Mokhtari	Seats (Total: 35)
	Class time/details on ELMs	ONLINE
WB12	Manouchehr Mokhtari	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

FMSC399 **Independent Study**

(Perm req)

Credits: 1-6 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

FMSC460 **Violence in Families**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.

Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.

For more information about this online class and requirements, click on this link and scroll down to the course.

WB11	Christine Schull	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

FMSC601 **Doctoral Seminar in the Process of Inquiry**

Credits: 1 | Grading Method: Regular

Restriction: Must be a first-year student in the Family Science doctoral program or Maternal and Child Health doctoral program; or permission of instructor .

This small, team-taught pro-seminar is designed as an introduction to the integration of family science and public health paradigms. The focus is the full, complex "process of inquiry", with emphasis on the conceptualization phase of the process, as it leads to related design, planning, empirical, and analytic phases. Instead of emphasizing content, the pro-seminar will help students develop a broad "way of thinking" about scientific inquiry, which will guide their coursework, assessments, and independent scholarly work during their doctoral training.

0101	Kevin Roy F 10:00am - 3:00pm	Seats (Total: 15) Location: TBA

FMSC654 **Clinical Marriage and Family Therapy Practice**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: FMSC651. Restriction: Must be in Couple and Family Therapy (Master's) program. Credit only granted for: FMSC654 or FMST654. Formerly: FMST654.

Application of theory and technique to the clinical practice of marriage and family therapy. Emphasis on case management and clinic administration. Includes completion of 12 successive months and 500 hours of supervised, direct client contact with couples, families, and individuals from an integrative family systems perspective.

0101	Amy Morgan W 8:00am - 4:30pm Contact instructor or department for details.	Seats (Total: 15) Location: TBA

FMSC689 **Research Internship**

Credits: 1-3 Grading Method: Regular

Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.

Contact department for information to register for this course.

FMSC698 **Advanced Topics in Family Science**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Contact department for information to register for this course.

FMSC698P **Advanced Topics in Family Science; Play Therapy**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

Additional information on course page.

0101	Sabra Starnes **Meets January 5, 2023 - February 10, 2023** Contact instructor or department for details. *Course will meet on Monday, Thursday, and Friday as follows: 1/5/23, 1/12/23, and 1/19/23 from 9am-3:30pm, 1/9 from 9am-3pm, 1/23 from 9am-1pm and 2/3/23 and 2/10/23 from 9am-1pm.*	Seats (Total: 20)

FMSC698T **Advanced Topics in Family Science; Testing and Assessment**

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Arranged group study on specific topic which may vary from term to term.

0101	Erica Turner Tu 9:00am - 3:00pm F 9:00am - 4:30pm	Seats (Total: 20) Location: TBA Location: TBA

FMSC698V **Advanced Topics in Family Science; Violence in Families**

Credits: 3 Grading Method: Regular, Audit

Arranged group study on specific topic which may vary from term to term.

WB11	Christine Schull Class time/details on ELMs	Seats (Total: 15) ONLINE

FMSC699 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Contact department for information to register for this course.

FMSC789 **Non-Thesis Research**

Credits: 1-3 Grading Method: Regular, Audit

Non-thesis option research papers.

I102	Mariana Falconier Contact instructor or department for details.	Seats (Total: 10)
I104	Amy Morgan Contact instructor or department for details.	Seats (Total: 10)
I105	Jessica Fish Contact instructor or department for details.	Seats (Total: 10)

I106	Manouchehr Mokhtari Contact instructor or department for details.	Seats (Total: 10)
I110	Elise Resnick Contact instructor or department for details.	Seats (Total: 10)
I112	Rabiatu Barrie Contact instructor or department for details.	Seats (Total: 10)
I113	Christine Schull Contact instructor or department for details.	Seats (Total: 10)
I114	Kerry Tripp Contact instructor or department for details.	Seats (Total: 10)
I118	Kevin Roy Contact instructor or department for details.	Seats (Total: 10)
I119	Edmond Shenassa Contact instructor or department for details.	Seats (Total: 10)
I120	Jinhee Kim Contact instructor or department for details.	Seats (Total: 10)
I122	Elisabeth Maring Contact instructor or department for details.	Seats (Total: 10)
I124	Mia A Smith-Bynum Contact instructor or department for details.	Seats (Total: 10)
I125	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
I126	Amy Lewin Contact instructor or department for details.	Seats (Total: 10)
I127	Mona Mittal Contact instructor or department for details.	Seats (Total: 10)
I128	Julia Steinberg Contact instructor or department for details.	Seats (Total: 10)
I129	Marie Thoma Contact instructor or department for details.	Seats (Total: 10)

I130	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
I131	Ghaffar Hurtado Choque Contact instructor or department for details.	Seats (Total: 10)
I132	Sandra Quinn Contact instructor or department for details.	Seats (Total: 10)

FMSC799 **Master's Thesis Research; Master Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

FMSC879 **Preparing Future Faculty and Professionals Seminar**

Credits: 1 Grading Method: Regular, Audit

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health. Topics include: career mapping, networking, teaching/teaching portfolios, independent research, publishing, grant writing, program and policy evaluation, consulting, job search, interviewing and negotiation, mentoring, diversity, work-family balance, and ethical issues in the workplace. Periodic visits to universities and government/nonprofit employers.

Instructor will provide course details.

WB11	Sandra Quinn W 1:00pm - 5:10pm	Seats (Total: 8) ONLINE

FMSC898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular, Sat-Fail

0119	Edmond Shenassa Contact instructor or department for details.	Seats (Total: 1)

GEOG Geographical Sciences Winter 2023

GEOG110 **The World Today: Global Perspectives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP

The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This class uses the context of regions of the world to explore the 21st century issues of climate change, development, politics, economy, and demography. Each region will be used to highlight aspects of sustainability.

WB11	Rachel Haber	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GEOG140 **Natural Disasters: Earthquakes, Floods, and Fires**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: PS	General Education: DSNS, SCIS

Catastrophic Environmental Events (CCE) that are becoming more common in this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.

WB11	Keith Yearwood	Seats (Total: 65)
	Class time/details on ELMs	ONLINE

GEOG170 **Mapping our Digital World**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: MS	General Education: DSNS

Introduction to technical methods used in gathering, analyzing, and mapping geospatial information for applications such as urban mobility, environmental monitoring, situational awareness, and disaster management. Topics include Geographic Information Systems (GIS), cartography, map projections, satellite and airborne remote sensing, the global positioning system (GPS), and introductory statistics and probability. The course is a gateway to more advanced technical classes in geospatial science.

WB11	Alice Barnsdale	Seats (Total: 25)
	MTuWTh 10:00am - 1:30pm	ONLINE
	Class time/details on ELMs	ONLINE

GEOG201 **Geography of Environmental Systems**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit		General Education: DSNL (if taken with GEOG211)

A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.

WB11	Amanda Hall	Seats (Total: 45)
	Class time/details on ELMs	ONLINE

GEOG202 **Introduction to Human Geography**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	CORE: SB	General Education: DSHS, DVCC

Introduction to what geographers do and how they do it. Systematic study of issues regarding social and cultural systems from a global to a local scale. Looks at the distribution of these variables and answers the question "Why here, and not there"?

WB11	Joy Adams	Seats (Total: 50)	
	MTuWTh 1:00pm - 4:30pm	ONLINE	
	Class time/details on ELMs	ONLINE	

GEOG211 **Geography of Environmental Systems Laboratory**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.

A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.

WB11	Baobao Liu	Seats (Total: 45)	
	Class time/details on ELMs	ONLINE	

GEOG272 **Introduction to Earth Observation Science**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: GEOG272 or GEOG372. Formerly: GEOG372.

Concepts and principles of Earth observation and remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.

WB11	Xueyuan Gao	Seats (Total: 25)	
	MTuWTh 9:00am - 10:50am	ONLINE	
	Class time/details on ELMs	ONLINE	
	MTuWTh 11:00am - 1:00pm	ONLINE	Lab

GEOG306 **Introduction to Quantitative Methods for the Geographical Environmental Sciences**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSAR

Essentials in the quantitative analysis of spatial and other data, with a particular emphasis on statistics and programming. Topics include data display, data description and summary, statistical inference and significance tests, analysis of variance, correlation, regression, and some advanced concepts, such as matrix methods, principal component analysis, and spatial statistics. Students will develop expertise in data analysis using advanced statistical software.

WB11	Haley Mullen	Seats (Total: 25)
	MTuWTh 6:00pm - 9:30pm	ONLINE

GEOG328B **Topics in Regional Geography; Geography of the Southern Caribbean**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Selected topics in regional geography.

Contact department for information to register for this course.

GEOG330 **As the World Turns: Society and Sustainability in a Time of Great Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVUP, SCIS

Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.

Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.

WB11	Rachel Lamb	Seats (Total: 75)
	Class time/details on ELMs	ONLINE

GEOG373 **Geographic Information Systems**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.

There is a $40.00 lab fee with this course. This course will be taught online athttp://elms.umd.edu using Live Classroom software.

WB11	Naijun Zhou	Seats (Total: 20)
	MTuWTh 6:00pm - 9:30pm	ONLINE

GEOG384 **Internship in Geography I**

(Perm req)

Credits: 3 Grading Method: Regular, Pass-Fail

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

I101	Keith Yearwood Contact instructor or department for details.	Seats (Total: 10)
I102	Keith Yearwood Contact instructor or department for details.	Seats (Total: 5)

GEOG385 **Internship in Geography II**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.

Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.

I101	Keith Yearwood Contact instructor or department for details.	Seats (Total: 5)
I102	Keith Yearwood Contact instructor or department for details.	Seats (Total: 5)

GEOG498 **Topical Investigations**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

Independent study under individual guidance.

Contact department for information to register for this course.

GEOG646 **Programming for GIS**

Credits: 3

Grading Method: Regular, Audit

Additional information: This class is recommended for all MSGIS students who have no prior computer programming background as well as those who wish to have additional practice. The skills learned in this class will be useful for more advanced courses such as GEOG656 (Programming and Scripting for GIS), GEOG657 (Web Programming), and GEOG650 (Mobile GIS).

An introduction to computer programming using Python and web programming languages. It is required for students in the MSGIS program before they enroll in more advanced programming courses (GEOG656 and GEOG657). This course teaches students the fundamentals concepts of computer science. Students will learn about the components of a computer program such as data management, conditional statements, iterative statements, and file processing. Students will develop programs and web apps for the purpose of automating tasks and assisting with data analysis.

Students must pay a $40 lab fee.

PGS1	Jonathan Resop	Seats (Total: 25)	
	Meets November 28, 2022 - February 17, 2023		
	W 5:30pm - 8:00pm	LEF 1158	
	Th 5:30pm - 8:00pm	LEF 1158	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence.		
PLG1	Jonathan Resop	Seats (Total: 15)	
	Meets November 28, 2022 - February 17, 2023		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online.		

GEOG651 **Spatial Statistics**

Credits: 3 Grading Method: Regular

Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course is about quantitative analysis of spatial data. It is intended to provide a broad survey of various methods of exploratory statistical data analysis most useful in environmental and social sciences. The course is a mix of theory, methods, and applications geared towards helping students: (1) develop an understanding of the important theoretical concepts in spatial data analysis; and (2) gain practical experience in application of spatial statistics to a variety of social and environmental problems using advanced statistical software.

Students must pay a $40 lab fee.

PGS1	Jeffery Sauer	Seats (Total: 25)	
	Meets November 28, 2022 - February 17, 2023		
	W 5:30pm - 8:00pm	JMZ 0122	
	Th 5:30pm - 8:00pm	JMZ 0122	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence.		
PLG1	Jeffery Sauer	Seats (Total: 15)	
	Meets November 28, 2022 - February 17, 2023		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online.		

GEOG655 **Spatial Database System**

Credits: 3 Grading Method: Regular, Sat-Fail

Prerequisite: GEOG653. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.

This course is designed to help students understand, analyze, design, and implement spatial databases. While the basic concepts and theories of database will be introduced, the focus of this course will be on providing students with hands-on experiences to practice the technical skills used in spatial database design and implementation. SQL, Oracle, and ArcSDE are the key topics.

PGS1	Ghermay Araya	Seats (Total: 30)	
	Meets November 28, 2022 - February 17, 2023		
	M 5:30pm - 8:00pm	LEF 1158	
	Tu 5:30pm - 8:00pm	LEF 1158	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence.		
PLG1	Ghermay Araya	Seats (Total: 20)	
	Meets November 28, 2022 - February 17, 2023		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online.		

GEOG660 **Advanced Remote Sensing Using Lidar**

Credits: 3 Grading Method: Regular

Prerequisite: GEOG652. Recommended: GEOG656 and GEOG654. Credit only granted for: GEOG660 or GEOG788G. Formerly: GEOG788G.

Lidar, also known as laser scanning, is an active remote sensing tool that can produce high-resolution point clouds. Lidar is being applied to problems such as terrain modeling, biomass estimation, change detection, feature extraction, and measuring tree canopy. Topics covered are fundamentals of lidar, current developments in lidar technology, and different applications where lidar is being used. Students will get hands-on learning about lidar data management, processing, and analysis.

Students must pay a $40 lab fee.

PGS1	Jonathan Resop	Seats (Total: 25)	
	Meets November 28, 2022 - February 17, 2023		
	M 5:30pm - 8:00pm	LEF 1166	
	Tu 5:30pm - 8:00pm	LEF 1166	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence.		
PLG1	Jonathan Resop	Seats (Total: 15)	
	Meets November 28, 2022 - February 17, 2023		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online.		

GEOG664 **GEOINT Systems and Platforms**

Credits: 3 Grading Method: Regular, Sat-Fail

There are numerous systems and platforms that support the collection, visualization and dissemination of Geospatial Intelligence (GEOINT). Platforms such as satellites and aircraft carry sensors systems that can detect both physical and man-made objects on the earth. Ground-based processing systems are used to analyze and visualize sensor data, and also to create and disseminate GEOINT products that guide decision-making. In this course you will learn how to develop and implement source-to-screen GEOINT workflows, and will understand how to use a system of systems approach to describe the programmatic and technical strengths and weaknesses of many different GEOINT systems and platforms.

Students must pay a $40 lab fee.

PGS1	Jonathon Hathaway	Seats (Total: 25)	
	Meets November 28, 2022 - February 17, 2023		
	W 5:30pm - 8:00pm	LEF 1106	
	Th 5:30pm - 8:00pm	LEF 1106	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence.		
PLG1	Jonathon Hathaway	Seats (Total: 15)	
	Meets November 28, 2022 - February 17, 2023		
	W 5:30pm - 8:00pm	ONLINE	
	Th 5:30pm - 8:00pm	ONLINE	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online.		

GEOG665 Algorithms for Geospatial Intelligence Analysis

Credits: 3 Grading Method: Regular

Recommended: Students taking the course must be familiar with data structures, basic GIS and RS concepts, and demonstrate basic understanding of using GIS and RS software. Restriction: Permission of BSOS-Geography department; or must be enrolled in Geographical Sciences MPS or graduate certificate program.

Exposes students to fundamental algorithms in geospatial intelligence and their application in methodological and substantive domains, and their implementation in computer programs and software systems. Current topics include spatial and space-time analysis, cartographic transformations, data compression and reduction, MapReduce and distributed data access, genetic algorithms, clustering and indexing algorithms, filtering algorithms, geometry and tessellation algorithms, routing algorithms, localization algorithms, and complexity and scaling. Implementation of algorithms will be explored through pseudo-code and a variety of scripting, data access, and programming languages.

Students must pay a $40 lab fee.

PGS1	Ruibo Han	Seats (Total: 25)	
	Meets November 28, 2022 - February 17, 2023		
	M 5:30pm - 8:00pm	LEF 1106	
	Tu 5:30pm - 8:00pm	LEF 1106	Lab
	Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence.		

PLG1	Ruibo Han	Seats (Total: 15)	
	Meets November 28, 2022 - February 17, 2023		
	M 5:30pm - 8:00pm	ONLINE	
	Tu 5:30pm - 8:00pm	ONLINE	Lab

Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online.

GEOG789 **Independent Readings**

Credits: 1-3 Grading Method: Regular, Audit

Independent reading as arranged between a graduate faculty member and graduate student.

Contact department for information to register for this course.

GEOG899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0101	Dongdong Wang	Seats (Total: 5)
	Contact instructor or department for details.	

GEOL Geology Winter 2023

GEOL123 **Causes and Consequences of Global Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: PS General Education: DSNS, SCIS

Cross-listed with: AOSC123. Credit only granted for: AOSC123, GEOG123, or GEOL123.

Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.

WB11	Samantha Kemper	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

GEOL899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

I101	Laurent Montesi	Seats (Total: 5)
	Contact instructor or department for details.	

GVPT Government and Politics Winter 2023

GVPT170 **American Government**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

A comprehensive study of national government in the United States.

WB11	Florian Gawehns	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT200 **International Political Relations**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DVUP

A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.

WB11	Ryan Frazier	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT282 **Politics and the Developing World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP

A study of the domestic governmental institutions; processes and problems such as conflict and economic development; and the socio-economic environments that are common to lower-income countries around the world.

WB11	Youngjoon Lee	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT306 **Global Environmental Politics**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: GVPT200. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; or permission of BSOS-Government & Politics department.

Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.

Open to all majors for winter term.

WB11	Jennifer Wallace	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT309F **Topics in International Relations; Chile: Chilean Culture, Democracy and Social Change**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

Contact department for information to register for this course.

GVPT309G **Topics in International Relations; Social Media in International Relations**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in international relations.

From the Rohingya genocide to NAFO (North Atlantic Fellas Organization) and the tracking of Russian military movements during the invasion of Ukraine, social media has become an increasingly important venue for international relations. The traditional boundaries between elites and masses have become blurred and non-state groups have been able to mpact politics in a way that was previously unimaginable. This course will examine the different ways that social media has changed nternational relations and how political scientists can use new methods to examine social media with a focus on twitter. By the end of the course, students can expect a more comprehensive understanding of social media's impact on politics as well as how to scrape twitter data and analyze it.

WB11	Jordan Dewar	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT358K **Study Abroad Seminar in Political Science; From the Pampas to the Andes: Political Culture and Local Politics in Argentina**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358T **Study Abroad Seminar in Political Science; Human Rights in Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT358V **Study Abroad Seminar in Political Science; Neoliberalism and Social Movements in Latin America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in political science.

Contact department for information to register for this course.

GVPT359G **Topics in Comparative Politics; Gender and Security in Conflict and Post-Conflict Societies**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in comparative politics.

This course looks at the ways in which gender shapes politics and political outcomes during and after conflict. The course is designed for students who are motivated to think critically about a range of issues related to gender and conflict in the international context. It introduces students to feminist theoretical frameworks for thinking about politics, as well as to empirical explorations of a variety of key topics within the larger field of gender and politics. These topics include women's political participation and representation during and after conflict, women in war and peacekeeping, their experiences with war, human rights, and globalization, and legal norms that have been diffused by the UN system.

WB11	Ojashwi Pathak	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT379I **Topics in American Politics; Interest Group and External Influence in U.S. Elections**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in American politics.

An examination of interest groups and their influence in our political system. Students will study special interest influence (perceived and actual) in the November 2020 election for President of the United States and the 2022 midterm elections. The course will explore concepts of voter mobilization, information spread, partisan loyalty, fringe groups, and foreign actors.

WB11	Tristan Hightower	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT379P **Topics in American Politics; The Psychology of Political Polarization**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The study of topics in American politics.

A seminar on the processes of political polarization reviewing the intersection of political science literature and social psychology literature on the subject. Though this seminar primarily revolves around American politics, the nature of the subject generally applies to interest in comparative and international politics. Broadly covering research on top-down processes of political polarization (e.g., elite-driven cues, elite vs. mass public polarization, affective polarization) as well as bottom-up processes based in social and personality psychology (e.g., individual differences, motivational needs, social context). In addition, topics of social cognition, partisanship, public opinion, vote choice, conspiracy theory belief endorsement, and political violence will be discussed.

WB11	Gregory Espinoza	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

GVPT388T **Topical Investigations; Germany in the New Europe: Politics, Business, and Culture**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Independent research and writing on selected topics in government and politics.

Contact department for information to register for this course.

GVPT620 **The Logic and Practice of Measurement**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Applied Political Analytics Master of Science program; or permission of department.

Introduction to the core concepts necessary to measure political behavior. Students will learn to take ideas from the concept stage to the measurement stage as part of a research design to answer theoretically motivated questions about political behavior and other political activity.

PCA1	Neil Lund	Seats (Total: 15)
	MTuWThF 3:45pm - 6:45pm	ONLINE
	Must be in the Applied Political Analysis (MS) program. All other graduate students must request permission. Contact oes@umd.edu.	

GVPT898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Guided readings and discussions on selected topics in political science.

Contact department for information to register for this course.

HEBR Hebrew Winter 2023

HEBR298O **Jewish Languages in America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVCC

Cross-listed with: JWST285. Credit only granted for: JWST285, JWST219O or HEBR298O. Formerly: JWST219O.

With a particular focus on language minority intra-group relationships -- the convergences, divergences, feelings of solidarity and tensions of difference within the group--this course will examine the history, current functional use and identity implications of Jewish languages in the United States.

Cross-listed with JWST219O. Credit only granted for JWST219O or HEBR298O. The relationship between Jewish American language groups and identity formation, and the effect of language both on interactions with the American majority and on intragroup dynamics within the Jewish community will be examined. Taught in English.

WB11	Avital Karpman	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

HESI Higher Ed, Student Affairs, and International Ed Policy Winter 2023

HESI217 **Introduction to Leadership**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSSP

Restriction: Freshman standing; or sophomore standing. Credit only granted for: LEAD217 or HESI217. Formerly: HESI217.

Surveys the study and practice of leadership and provides students with a variety of experiences to wrestle with large leadership questions. What is leadership? Who can be a leader? How is leadership an important aspect of understanding self and others? Students will explore and respond to these questions through a variety of leadership theories and models, self-assessments, critical reflection, active-learning, group projects, and research. The course will introduce students to critical theory and critical perspectives of leadership to help students broaden their perspectives on leadership and develop more complex thought and practice of leadership.

This course will survey the study and practice of leadership and provide students with a variety of experiences to wrestle with large leadership questions. What is leadership? Who can be a leader? How is leadership an important aspect of understanding self and others? Students will explore and respond to these questions through a variety of leadership theories and models, self-assessments, critical reflection, active-learning, group projects, and research. The course will introduce students to critical theory and critical perspectives of leadership to help students broaden their perspectives on leadership and develop more complex thought and practice of leadership.

WB11	Pamela Scott	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
	Contact leadershipstudies@umd.edu with questions	

HESI318E **Applied Contextual Leadership; Exploring Strengths and Values for Effective Leadership**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.

Students will explore strengths and values of individuals and teams to better understand how to engage in effective, collaborative leadership. Tools such as the Gallup Organization's CliftonStrengths Assessment will be used with a critical lens. Themes of teamwork, problem-solving, diversity and inclusion, coaching others, and conflict resolution are woven throughout the course. (Students with previous credit for HESI418E Strengths-Based Leadership are not eligible to take this course. Contact leadershipstudies@umd.edu with questions.)

WB11	Noel Kuriakos	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

HESP Hearing and Speech Sciences Winter 2023

HESP386 **Experiential Learning**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail

Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.

Students will have the opportunity observe and/or participate in therapy activities provided by a speech-language pathologist or audiologist in this experiential learning course.

0116	Nan Ratner	Seats (Total: 10)
	Contact instructor or department for details.	

HESP499 **Independent Study**

(Perm req)

Credits: 1-3

Grading Method: Regular, Pass-Fail, Audit

A directed study of selected topics pertaining to human communication and its disorders.

Contact department for information to register for this course.

HESP617 **Cultural and Linguistic Diversity in Communication and its Disorders**

Credits: 2

Grading Method: Regular, Audit, Sat-Fail

Recommended: HESP417 or equivalent. Restriction: Must be in one of the following programs (Hearing and Speech Sciences: Ph.D. (Doctoral); Clinical Audiology: Au.D. or Ph.D. (Doctoral); Hearing and Speech Sciences: M.A. (Master's)).

An exploration and discussion of cultural and linguistic diversity, its impact on communication and communication disorders, and strategies for assessment and intervention of culturally and linguistically diverse clients

0101	Eusebia Mont	Seats (Total: 25)
	MTuWTh 10:00am - 12:30pm	LEF 0135

HESP638 **Research Practicum**

(Perm req)

Credits: 1-3

Grading Method: Sat-Fail, Audit

Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

Contact department for information to register for this course.

HESP639B **Special Topics in Hearing and Speech Sciences**

Credits: 1-3

Grading Method: Regular, Audit, Sat-Fail

Intensive coverage of selected topics of current interest.

0101	Erika Gray	Seats (Total: 15)
	TuTh 4:30pm - 7:00pm WF 2:00pm - 4:30pm	LEF 0135 LEF 0135
XHE1	Erika Gray	Seats (Total: 5)
	TuTh 4:30pm - 7:00pm WF 2:00pm - 4:30pm	LEF 0135 LEF 0135

HESP704 **Audiology Practice Management**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Prerequisite: HESP606, HESP706, HESP700, and HESP701; or permission of instructor.

Basics of clinical business management both in the context of private practice in Audiology and as a department in a healthcare corporation.

0101	Samira Anderson	Seats (Total: 20)
	MTuWTh 9:00am - 12:30pm	LEF 1171

HESP708 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Individual research projects under guidance of a faculty member.

Contact department for information to register for this course.

HESP799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

HESP849 **Capstone Research Project I**

Credits: 2 Grading Method: Regular

First of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves individual study and/or supervised lab work with mentor, preparation of research proposal (including IRB protocol if required), and attendance at Capstone Research Project Workshop.

Contact department for information to register for this course.

HESP859 **Capstone Research Project II**

Credits: 1-2 Grading Method: Regular

Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.

Contact department for information to register for this course.

HESP889 **Doctoral Candidacy Research**

Credits: 1-3 Grading Method: Regular

Doctoral candidacy paper research

Contact department for information to register for this course.

HESP898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

HISP Historic Preservation Winter 2023

HISP619C **Special Topics in Historic Preservation; Havana's Art & Culture: The intersection of architecutre, planning, preservation and economics.**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.

Cross-listed with ARCH478D, ARCH678D, RDEV689C, URSP399I, and URSP688R. Credit only granted for ARCH478D, ARCH678D, HISP619C, RDEV689C, URSP399I, or URSP688R. This course will explore art and culture in Havana, Cuba as the intersection of architecture, planning, preservation, and economics, including real estate development. Havana is one of the oldest cities in the hemisphere, having just celebrated its 500th anniversary. The course will provide the opportunity for the students to intensely interact (virtually, from Havana) with Cuban experts in each discipline. Students will first learn about the rich and complex contextual past and present framework for how these four disciplines interact and are manifested in the arts, culture, and society. Group projects will apply the learning to specific neighborhoods in Havana. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, and international collaboration.

Contact department for information to register for this course.

HISP629 **Independent Studies in Historic Preservation**

Credits: 1 Grading Method: Regular, Audit, Sat-Fail

Individual Instruction course.

I102	Donald Linebaugh	Seats (Total: 1)
	Class time/details on ELMs	ONLINE

HIST History Winter 2023

HIST200 **Interpreting American History: Beginnings to 1877**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SH General Education: DSHS, DSHU

Credit only granted for: HIST156 or HIST200. Formerly: HIST156.

The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.

WB11	Robert Chiles	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST201 **Interpreting American History: From 1865 to the Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SH | General Education: DSHS, DSHU, DVUP

Credit only granted for: HIST157 or HIST201. Formerly: HIST157.

The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.

WB11	Robert Chiles	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST219K **Special Topics in History; London and the British Empire, 1500-1850**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

HIST328E **Selected Topics in History; The Politics of the Apocalypse: Imagining the World's End in Modern Times**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

This course will explore apocalyptic concerns from ancient times through the present COVID-19 pandemic, focusing on three domains: religion, politics, and technology. The course will also challenge students to see history itself as a bone of contention, a subject of interpretation, rather than a fixed story of progress toward a predetermined end.

WB11	Piotr H Kosicki	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST328X **Selected Topics in History; Behind "A Game of Thrones": Modern Medievalism in Popular Culture**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

George R.R. Martin says that the characters of "A Game of Thrones" inhabit a world based on the European Middle Ages. This course explores that world, examines the real cultures and events that inspired it, and considers the complex question of how modern depictions of the past reflect our own beliefs, interests, and concerns.

WB11	Courtney Dahlke	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST329N **Special Topics in History; Chile: Chilean Culture, Democracy and Social Change**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Contact department for information to register for this course.

HIST329P **Special Topics in History; From Body Snatchers to Jack the Ripper: Scandal and Crime in Victorian Britain**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

WB11	Julie Taddeo	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST339Y **Special Topics in History; From Blood Libel to QAnon: 900 Years of "Conspiracy Theories"**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in history.

WB11	Mikol Bailey	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST339Z **Special Topics in History; Cultural Festivals and Decolonization in Africa**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Thematic exploration of a topic in history.

This course explores African music festivals, film showcases, and art exhibitions (and one legendary boxing match!) during the 1960s and 1970s. The course will study these festivals to understand how African leaders thought about decolonization, independence, and national culture.

WB11	Caroline Maguire	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HIST357 **Recent America: 1945-Present**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: HIST201, HIST211, HIST213, HIST222, HIST255, or HIST275; or must have completed HIST157; or permission of instructor.

American history from the inauguration of Harry S. Truman to the present with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.

WB11	Howard Smead	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HLSA Health Services Administration Winter 2023

HLSA300 **Introduction to Health Policy and Services**

Credits: 3 Grading Method: Regular

Prerequisite: Must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.

A multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.

WB11	Kaitlynn Robinson-Ector Class time/details on ELMs	Seats (Total: 25) ONLINE

HLSA688 **Independent Study**

Credits: 1-6 Grading Method: Regular, Audit

Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.

I102	Lori Simon-Rusinowitz Contact instructor or department for details.	Seats (Total: 5)
I103	Neil Sehgal Contact instructor or department for details.	Seats (Total: 5)
I104	Instructor: TBA Contact instructor or department for details.	Seats (Total: 5)
I105	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 5)
I106	Rebecca Gourevitch Contact instructor or department for details.	Seats (Total: 5)
I107	Luisa Franzini Contact instructor or department for details.	Seats (Total: 5)
I108	Stephen Thomas Contact instructor or department for details.	Seats (Total: 5)

I109	Jie Chen Contact instructor or department for details.	Seats (Total: 5)
I110	Dahai Yue Contact instructor or department for details.	Seats (Total: 5)
I111	Kellee White Contact instructor or department for details.	Seats (Total: 5)
I112	Xuanzi Qin Contact instructor or department for details.	Seats (Total: 5)
I113	Aryn Phillips Contact instructor or department for details.	Seats (Total: 5)

HLSA778 **Internship in Public Health**

(Perm req)

Credits: 1-4 Grading Method: Regular, Audit

Practical experience providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the experience will depend upon the student's background and career goals.

Contact department for information to register for this course.

HLSA786 **Capstone Project in Public Health**

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Health Services Administration department.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

I102	Lori Simon-Rusinowitz Contact instructor or department for details.	Seats (Total: 5)
I103	Neil Sehgal Contact instructor or department for details.	Seats (Total: 5)
I104	Melvin Seale Contact instructor or department for details.	Seats (Total: 5)
I105	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 5)

I106	Rebecca Gourevitch Contact instructor or department for details.	Seats (Total: 5)
I107	Luisa Franzini Contact instructor or department for details.	Seats (Total: 5)
I108	Stephen Thomas Contact instructor or department for details.	Seats (Total: 5)
I109	Jie Chen Contact instructor or department for details.	Seats (Total: 5)
I110	Dahai Yue Contact instructor or department for details.	Seats (Total: 5)
I111	Kellee White Contact instructor or department for details.	Seats (Total: 5)
I112	Xuanzi Qin Contact instructor or department for details.	Seats (Total: 5)
I113	Aryn Phillips Contact instructor or department for details.	Seats (Total: 5)

HLSA799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

0103	Neil Sehgal Contact instructor or department for details.	Seats (Total: 5)
0105	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 5)
0106	Rebecca Gourevitch Contact instructor or department for details.	Seats (Total: 5)
0107	Luisa Franzini Contact instructor or department for details.	Seats (Total: 5)
0112	Xuanzi Qin Contact instructor or department for details.	Seats (Total: 5)
0113	Aryn Phillips Contact instructor or department for details.	Seats (Total: 5)

HLSA898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

I102	Lori Simon-Rusinowitz Contact instructor or department for details.	Seats (Total: 10)
I103	Neil Sehgal Contact instructor or department for details.	Seats (Total: 10)
I104	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
I105	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 10)
I106	Rebecca Gourevitch Contact instructor or department for details.	Seats (Total: 10)
I107	Luisa Franzini Contact instructor or department for details.	Seats (Total: 10)
I108	Stephen Thomas Contact instructor or department for details.	Seats (Total: 10)
I109	Jie Chen Contact instructor or department for details.	Seats (Total: 10)
I110	Dahai Yue Contact instructor or department for details.	Seats (Total: 10)
I111	Kellee White Contact instructor or department for details.	Seats (Total: 10)
I112	Xuanzi Qin Contact instructor or department for details.	Seats (Total: 5)
I113	Aryn Phillips Contact instructor or department for details.	Seats (Total: 5)

HLSA899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

I102	Lori Simon-Rusinowitz Contact instructor or department for details.	Seats (Total: 10)

I103	Neil Sehgal Contact instructor or department for details.	Seats (Total: 10)
I104	Instructor: TBA Contact instructor or department for details.	Seats (Total: 10)
I105	Michel Boudreaux Contact instructor or department for details.	Seats (Total: 10)
I106	Rebecca Gourevitch Contact instructor or department for details.	Seats (Total: 10)
I107	Luisa Franzini Contact instructor or department for details.	Seats (Total: 10)
I108	Stephen Thomas Contact instructor or department for details.	Seats (Total: 10)
I109	Jie Chen Contact instructor or department for details.	Seats (Total: 10)
I110	Dahai Yue Contact instructor or department for details.	Seats (Total: 10)
I111	Kellee White Contact instructor or department for details.	Seats (Total: 10)
I112	Xuanzi Qin Contact instructor or department for details.	Seats (Total: 5)
I113	Aryn Phillips Contact instructor or department for details.	Seats (Total: 5)

HLTH Health Winter 2023

HLTH124 **Introduction to Behavioral and Community Health**

Credits: 1 Grading Method: Regular, Audit

Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.

Required of first semester Community Health majors to expose them to introductory-level concepts within the field of behavioral and community health as well as the Community Health degree program. Includes discussion on the delivery of behavioral and community health at the local, state, national, and global levels; career opportunities in the diverse sectors of the community health field; undergraduate programmatic information; and strategies for student success.

For the winter, restriction is not in effect. Students of all majors are eligible to register and take this course.

WB11	M Reynolds	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HLTH140 **Personal and Community Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.

WB11	James Butler	Seats (Total: 60)
	Class time/details on ELMs	ONLINE

HLTH234 **Global Health Messages: Understanding Exposure & Impact**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DVCC, SCIS

Restriction: Must not be in the Community Health program.

Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.

WB11	Sacha St-Onge Ahmad	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

HLTH264 **Tweets & Likes: Digital Health & Social Media**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, SCIS

Restriction: Must not be in the Community Health program.

Examines the current and potential use of digital health and social media to influence public health. Provides an overview of knowledge, skills and terminology necessary to optimize the effectiveness of these technologies to contribute to the enhancement of individual and community health.

WB11	Azieb Kidanu	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HLTH289 **Topical Investigations**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.

WB11	Tracy Kennedy	Seats (Total: 5)
	Class time/details on ELMs	ONLINE

HLTH366 Behavioral and Community Issues in Public Health

Credits: 3 Grading Method: Regular, Audit

Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.

The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.

WB11	Evelyn King-Marshall	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

HLTH377 Human Sexuality

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.

WB11	Jenna Messman	Seats (Total: 200)
	Class time/details on ELMs	ONLINE

HLTH432 Medical Terminology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: HLTH432 or HLTH498T. Formerly: HLTH498T.

Provides the framework for understanding medical language and terminology used by health care professionals. Students will gain an understanding of the rules of building and analyzing medical terms from word origins and will learn correct pronunciation, definitions, and spelling for all of the body systems, major pathological conditions, common disorders, prescribed medications, and more. Whether a student is interested in learning more about the medical field or they want to acquire practical knowledge for future personal use, this course provides the foundation for understanding the language of medicine.

WB11	Katherine Sharp	Seats (Total: 175)
	Class time/details on ELMs	ONLINE

HLTH471 **Women's Health**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D

Restriction: Must be in a program in the Harriet Tubman Department of Women, Gender, and Sexuality Studies; or must be in a major within SPHL-Behavioral & Community Health department. Cross-listed with: WGSS471. Credit only granted for: HLTH471, WMST471, or WGSS471.. Formerly: WMST471.

The women's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.

For the winter, restriction is not in effect. Students of all majors are eligible to register and take this course.

WB11	M Reynolds	Seats (Total: 60)
	Class time/details on ELMs	ONLINE

HLTH489I **Field Laboratory Projects and Workshop; East Meets West: Contrasting Public Health Priorities, Pragmatics and Polemics in the U.S. and India**

Credits: 3 Grading Method: Regular

A course designed to meet the needs of persons in the field with respect to workshop and research projects in special areas of knowledge not covered by regularly structured courses.

Contact department for information to register for this course.

HLTH688 **Special Problems in Health Education**

Credits: 1-6 Grading Method: Regular, Audit

I102	Cheryl Knott	Seats (Total: 5)
	Contact instructor or department for details.	
I120	Bradley Boekeloo	Seats (Total: 5)
	Contact instructor or department for details.	
I121	Sharon Desmond	Seats (Total: 5)
	Contact instructor or department for details.	
I123	Mary Garza	Seats (Total: 5)
	Contact instructor or department for details.	

I124	Elizabeth Aparicio Contact instructor or department for details.	Seats (Total: 5)
I126	Dina Borzekowski Contact instructor or department for details.	Seats (Total: 5)
I128	Barbara Curbow Contact instructor or department for details.	Seats (Total: 12)
I129	Donna Howard Contact instructor or department for details.	Seats (Total: 5)
I130	Craig Fryer Contact instructor or department for details.	Seats (Total: 5)
I131	James Butler Contact instructor or department for details.	Seats (Total: 5)
I132	Min Wang Contact instructor or department for details.	Seats (Total: 5)
I134	Amelia Arria Contact instructor or department for details.	Seats (Total: 5)
I136	Dina Borzekowski Contact instructor or department for details.	Seats (Total: 5)
I160	Evelyn King-Marshall Contact instructor or department for details.	Seats (Total: 5)
I180	Kerry Green Contact instructor or department for details.	Seats (Total: 5)

HLTH898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

I102	Cheryl Knott Contact instructor or department for details.	Seats (Total: 5)
I120	Bradley Boekeloo Contact instructor or department for details.	Seats (Total: 5)
I121	Min Wang Contact instructor or department for details.	Seats (Total: 5)

I123	James Butler Contact instructor or department for details.	Seats (Total: 5)
I126	Dina Borzekowski Contact instructor or department for details.	Seats (Total: 5)
I127	Faika Zanjani Contact instructor or department for details.	Seats (Total: 5)
I128	Barbara Curbow Contact instructor or department for details.	Seats (Total: 5)
I129	Donna Howard Contact instructor or department for details.	Seats (Total: 5)
I130	Devlon Jackson Contact instructor or department for details.	Seats (Total: 5)
I132	Craig Fryer Contact instructor or department for details.	Seats (Total: 5)
I133	Kirsten Stoebenau Contact instructor or department for details.	Seats (Total: 5)
I134	Amelia Arria Contact instructor or department for details.	Seats (Total: 5)
I139	Cynthia Baur Contact instructor or department for details.	Seats (Total: 5)
I140	Elizabeth Aparicio Contact instructor or department for details.	Seats (Total: 5)
I160	Evelyn King-Marshall Contact instructor or department for details.	Seats (Total: 5)
I170	Kerry Green Contact instructor or department for details.	Seats (Total: 5)
I180	Robert Gold Contact instructor or department for details.	Seats (Total: 5)
I192	Alice Horowitz Contact instructor or department for details.	Seats (Total: 5)

HLTH899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

I121	Kenneth Beck Contact instructor or department for details.	Seats (Total: 5)
I128	Barbara Curbow Contact instructor or department for details.	Seats (Total: 5)
I139	Robert Feldman Contact instructor or department for details.	Seats (Total: 5)

INAG Institute of Applied Agriculture Winter 2023

INAG110 **Oral Communication**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.

A study of how perception, self-concept, and verbal and nonverbal communications affect the communication process as it emerges in the workplace. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.

WB11	Amy Fisher MTuWThF 9:00am - 12:30pm	Seats (Total: 15) ONLINE
WB12	Eric Dunning MTuWThF 12:30pm - 4:00pm	Seats (Total: 15) ONLINE

INFM Information Management Winter 2023

INFM605 **Users and Use Context**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Use of information by individuals. Nature of information. Information behavior and mental models. Characteristics of problems, task analysis, problem solving, and decision making. Methods for determining information behavior and user needs. Information access. Information technology as a tool in information use.

WB11	Chad Doran Class time/details on ELMs	Seats (Total: 25) ONLINE

INST Information Studies Winter 2023

INST210 **The Nuts & Bolts of Getting Hired**

Credits: 1 Grading Method: Regular, Pass-Fail, Audit

Credit only granted for: INST208C or INST210. Formerly: INST208C.

Have you thought about finding an internship, getting a job, or starting your career? Perhaps you're confused about how to begin. Welcome to The Nuts and Bolts of Getting Hired, where you'll learn the skills necessary to develop your professional tool kit and obtain the internship or job that can help you build the career you want. This course will help you prepare for the next step in your career by exploring the following topics: Identifying your career goals, mastering the skills of crafting a professional resume, effective interviewing, strategic networking, and professional communication.

WB11	Katy Lawley	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

INST309 Independent Study in Information Science

Credits: 1-3 Grading Method: Regular

Individual independent study of an aspect of information science, selected according to student interest and need in consultation with a member of the iSchool faculty. Repeatable to 6 credits if content differs.

0132	William Kules	Seats (Total: 4)
	Contact instructor or department for details.	

INST462 Introduction to Data Visualization

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Minimum grade of C- in STAT100; minimum grade of a C- from one of the following (INST201, INST301, or BSOS233); minimum grade of C- in INST126 or GEOG276; a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, SOCY100, or SOCY105); and a minimum grade of C- from one of the following (AASP210, ECON230, GEOG306, GVPT201, INST314, PSYC200, or SOCY201). Restriction: Must be in Information Science or Social Data Science program.

Exploration of the theories, methods, and techniques of visualization of information, including the effects of human perception, the aesthetics of information design, the mechanics of visual display, and the semiotics of iconography.

WB11	Jennifer Golbeck	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

INST633 Analyzing Social Networks and Social Media

Credits: 3 Grading Method: Regular

Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC708L or INST633. Formerly: LBSC708L.

Introduces students to the science and social science of network analysis. Through real world examples, including analysis of their own social networks, students will develop skills for describing and understanding the patterns and usage of services like Facebook, Twitter, YouTube, and others. Students will read classic and cutting edge articles and books about these topics and discuss their applicability to this new social media. The class will culminate with a capstone project in which students will apply the analysis methods they have learned to understanding a particular question about social networks and social media.

WB11	Jennifer Golbeck	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

INST670 **Introduction to Javascript Programming**

Credits: 1 Grading Method: Regular, Audit

Credit only granted for: INST728N and INST670. Formerly: INST728N.

Introduction to the fundamentals of Javascript programming. Basic components of all programming languages, including variables, types, data structures, and control flow, with a focus on leveraging Javascript libraries for more advanced functionality. No prior experience needed.

WB11	Jennifer Golbeck	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST671 **Introduction to Web Programming**

Credits: 1 Grading Method: Regular, Audit

Credit only granted for: INST728W or INST671. Formerly: INST728W.

Introduction to the fundamentals of designing and programming web sites. HTML programming extended by work with Cascading Style Sheets. Programming skills are complemented with fundamentals of design and usability. No prior programming experience needed.

WB11	Jennifer Golbeck	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST673 **Hands On Machine Learning with Weka**

Credits: 1 Grading Method: Regular, Audit

Recommended: It is recommended that students have some familiarity with programming prior to taking this course. Restriction: Permission of INFO-College of Information Studies.

Students will receive hands on experience with the open-source machine learning tool Weka. Topics covered will be classification, regression, basic algorithm types, how to get data into a format Weka can process, how to interpret results, and basic document classification. The class will meet online.

WB11	Jennifer Golbeck	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

INST709 **Independent Study**

Credits: 1-3 Grading Method: Regular, Audit

Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.

0130	Richard Marciano	Seats (Total: 5)
	Contact instructor or department for details.	
0198	Ray Barker	Seats (Total: 5)
	Contact instructor or department for details.	

INST799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

JOUR Journalism Winter 2023

JOUR130 **Self-Presentation in the Age of YouTube**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285. Additional information: May not count toward the Journalism major.

Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.

WB11	Amber Moore	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

JOUR175 **Media Literacy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: IE, D General Education: DSSP, DVUP

Additional information: Not applicable toward journalism major.

An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.

This is a completely online course with both synchronous and asynchronous elements. Students are required to login at the time specified for the discussion section but additional work outside of this time is required as well.

WB11	Susan Moeller	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
	Mandatory synchronous online meetings 1/3 from 5-6pm EST, 1/9 from 5-6pm EST and 1/16 from 5-6pm EST.	

JOUR199 **Survey Apprenticeship**

(Perm req)

Credits: 1 Grading Method: Sat-Fail

College-monitored experience in approved mass-communications organizations and industries.

I101	Karen Denny	Seats (Total: 5)
	Contact instructor or department for details.	

JOUR282 **Beyond Facebook: How Social Media are Transforming Society, Culture, Business and Politics**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, SCIS

Credit only granted for: JOUR289F or JOUR282. Formerly: JOUR289F.

Examining the rise of social media and their impact on culture, business, government, politics, journalism and society, this course provides students with a broad contextual understanding of the multidisciplinary impacts of social media such as Twitter, Facebook and similar Internet-based services.

WB11	Denitsa Yotova	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

JOUR459W **Special Topics in Journalism; Sports Media & Athlete Branding**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Issues of special concern and current interest. Open to all students.

This course will help students understand athlete representation and self-representation in the digital age, with a specific focus on how storytelling differs across college, professional and Olympic sports given the unique policies and regulations at each of these levels. In addition, the course will explore athlete use of social media and the role new technologies play in creating and inspiring interest in individual brands.

WB11	Shannon Scovel	Seats (Total: 23)
	Class time/details on ELMs	ONLINE

JOUR698 **Special Problems in Communication**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

Independent study in area of the student's interest.

Contact department for information to register for this course.

JWST Jewish Studies Winter 2023

JWST219O **Jewish Languages in America**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHU, DVCC

Cross-listed with: HEBR298O. Credit only granted for: JWST285, JWST219O or HEBR298O. Formerly: JWST219O.

With a particular focus on language minority intra-group relationships -- the convergences, divergences, feelings of solidarity and tensions of difference within the group--this course will examine the history, current functional use and identity implications of Jewish languages in the United States.

Cross-listed with HEBR298O. Credit only granted for JWST219O or HEBR298O. The relationship between Jewish American language groups and identity formation, and the effect of language both on interactions with the American majority and on intragroup dynamics within the Jewish community will be examined. Taught in English.

WB11	Avital Karpman	Seats (Total: 15)
	Class time/details on ELMs	ONLINE

KNES Kinesiology Winter 2023

KNES161C **Physical Education Activities: Coed; Group Cycling (Intermediate)**

Credits: 1 Grading Method: Regular, Pass-Fail

0101	Andrea Liberto	Seats (Total: 17)	
	MTuThF 10:00am - 12:15pm	RDG 1114	Lab

KNES161N **Physical Education Activities: Coed; Conditioning (beginning)**

Credits: 1 Grading Method: Regular, Pass-Fail

Students must pay a $40 instructional materials fee.

WB11	Andrew Ginsberg	Seats (Total: 50)	
	Class time/details on ELMs	ONLINE	Lab

KNES161T **Physical Education Activities: Coed; Yoga (Beginning)**

Credits: 1 | Grading Method: Regular, Pass-Fail

Students must pay a $40 instructional materials fee.

WB11	Kate Shin	Seats (Total: 40)	
	Class time/details on ELMs	ONLINE	Lab

KNES201 **Kinesiological Principles of Physical Activity**

Credits: 1 | Grading Method: Regular, Pass-Fail

Corequisite: Any physical activity course, e.g., KNES 100-190; or permission of SPHL-Kinesiology department. Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: KNES200 or KNES201.

An introduction to Kinesiology, the study of human movement, through the experience of learning a specific motor skill or being engaged in physical activity. Emphasis on the theories and knowledge underlying the learning and performance of all motor and sport skills.

WB11	Emma Powell	Seats (Total: 24)	
	Class time/details on ELMs	ONLINE	

KNES225 **Hoop Dreams: Black Masculinity and Sport**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, SCIS

Credit only granted for: KNES289R OR KNES225. Formerly: KNES289R.

Has sport disadvantaged African American males? This course critically examines sport as a site where notions of black masculinity are publicly debated, critiqued, challenged, celebrated, and also transformed. Utilizing an interdisciplinary approach, this course explores how sport has been invoked across the political and ideological spectrum to interrogate a number of issues impacting the life chances of young, African Americans males including educational attainment, poverty, social mobility, racism, cultural production, and notions of masculinity.

WB11	Ronald Mower	Seats (Total: 50)	
	Class time/details on ELMs	ONLINE	

KNES287 **Sport and American Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Recommended: Minimum grade of C- in KNES285.

Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.

WB11	Eric Stone	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

KNES289 **Topical Investigations**

(Perm req)

Credits: 1-3 Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES334 **Adapted Physical Activity: Empowering People with Disabilities to Lead a Healthy and Active Lifestyle**

Credits: 3 Grading Method: Regular, Pass-Fail General Education: DSSP, DVUP

Prerequisite: KNES370; or students not in the Kinesiology major may contact the instructor for permission. Restriction: Must have earned a minimum of 90 credits. Credit only granted for: KNES498L or KNES334. Formerly: KNES498L.

Study of the field of adapted physical activity and its impact on the health and wellness of individuals with disabilities. Students will design an adapted physical activity program proposal and develop the skills needed to empower people with disabilities to participate in physical activity and sports programs. Students will explore their own perceptions towards disability and how people with disabilities are portrayed in our society. They will study the etiology of disabling conditions and the implications for participating in physical activity.

WB11	Ana Palla	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

KNES342 **Sport, Commerce, and Culture in the Global Marketplace**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Recommended: KNES287. Credit only granted for: KNES389A or KNES342. Formerly: KNES389A.

The Sport, Commerce, and Culture in the Global Marketplace study abroad program is designed for students who are interested in the relationship between sport, culture, and the contemporary global economy.

Contact department for information to register for this course.

KNES350 **The Psychology of Sports & Exercise**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS

Restriction: Must have earned a minimum of 45 credits.

An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.

Restricted to students with a minimum of 45 credit or greater.

WB11	J Carson Smith	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

KNES370 **Motor Development**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in a major within SPHL-Kinesiology department.

Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.

WB11	Tim Kiemel	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

KNES389 **Topical Investigations**

(Perm req)

Credits: 1-3 | Grading Method: Regular, Pass-Fail

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES389K **Topical Investigations; Kinesiology Internship**

(Perm req)

Credits: 3 | Grading Method: Regular

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES389P **Topical Investigations; Strength & Conditioning of Athletes**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.

KNES389P prepares students to teach and coach athletes in the area of strength and conditioning. The lecture content is paired with hands-on skills practice to address safety screening, pre- and post-testing, and multi-modal training methods. Students will prepare to work with athletes at any level and age range, in individual or group settings, with a variety of sports applications, and in a variety of training locations.

0101	Jo Zimmerman, John Philbin, Sami Ahmed	Seats (Total: 28)	
	MTuWThF 11:00am - 1:00pm	SPH 0125	
	TBA	SPH 0103	Lab

KNES462 **Neural Basis of Human Movement**

Credits: 3

Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Minimum grade of C- in BSCI201, BSCI202, and KNES385; or permission of SPHL-Kinesiology department. Restriction: Must have earned a minimum of 75 credits.

An introduction to the neural substrates which underlie postural and volitional movement. Neuroanatomical and neurophysiological basis of motor functioning; past and present conceptualizations of motor control and coordination; movement disorders; and maturation of the neuromuscular system.

WB11	Rodolphe Gentili	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

KNES498 **Special Topics in Kinesiology**

(Perm req)

Credits: 3

Grading Method: Regular, Pass-Fail

Topics of special interest in areas not covered by regularly scheduled courses.

Prerequisite: permission of department.

Contact department for information to register for this course.

KNES689 **Special Problems in Kinesiology**

(Perm req)

Credits: 1-6

Grading Method: Regular, Audit

Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.

Contact department for information to register for this course.

KNES799 **Master's Thesis Research**

(Perm req) Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

KNES899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

LACS Latin American and Caribbean Studies Winter 2023

LACS269T **Special Topics in Study Abroad II; Technology, Education, and Society: Ecuador in Context**

Credits: 1-6 Grading Method: Regular

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

LACS348Z **Special Topics in Latin American and Caribbean Studies; El Caribe Esta Cabron: Caribbean Artist Perspectives**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Topics to be announced when offered.

GC01	Victor Hernandez Sang, Gabrielle Robinson-Tillenburg	Seats (Total: 20)

Contact instructor or department for details.

This course explores how artists of Puerto Rico, Cuba, Haiti and the Dominican republic comment on social issues in their respective communities. With a special focus on music and visual art, this class will provide a finer understanding of important contemporary issues such as the recent Cuban protests, the Puerto Rico sovereignty-statehood debate, anti-Haitianism in the Dominican Republic, and activism responding to gender-based violence in these regions. Class meets on Mondays and Fridays, 10am-12pm, EST. This course serves as a a supporting-area course towards degree requirements for Art History. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for global engagement.

LACS369N **Special Topics in Study Abroad III; Critical Cultures in Cotemporary Cuba: Introduction to Cuban Revolution**

Credits: 3 Grading Method: Regular

Special topics course taken as part of an approved study abroad program.

Cross-listed with SPAN448C and SPAN699C. Credit only granted for SPAN448C, LACS369N, or SPAN699C.

Contact department for information to register for this course.

LARC Landscape Architecture Winter 2023

LARC151 **Urban Agriculture: Designing and Assessing Edible Landscapes**

Credits: 3 | Grading Method: Regular | General Education: DSSP, SCIS

Students will examine the growing development of urban agriculture and edible landscapes. Urban agriculture has seen a recent growth and interest in cities across the globe. From Paris to New York, from Baltimore to Detroit, urban agriculture is an emerging land use to address a variety of needs. Redevelopment, food deserts, community engagement and environmental justice are just some of the issues and topics that are connected to the recent growth of urban agriculture. This course will take a critical examination of urban agriculture's contribution to the food system, its input and outputs in the urban landscape, and the planning and design of urban agriculture and edible landscapes.

WB11	Sherry Russell	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LARC152 **Greening Cities: Who Wins, Who Loses, and Who Cares?**

Credits: 3 | Grading Method: Regular, Pass-Fail | General Education: DSSP, SCIS

Credit only granted for: LARC152 or PLSC289I. Formerly: PLSC289I.

"Greening Cities" can have many interpretations: improving or adding urban economic activity, realizing energy efficiency, greening urban transport systems, etc. An important component of livable and sustainable cities and metropolitan ecosystems are the plants and landscapes that are inhabited by plants. With the majority of humans now living in cities, a survey of urban ecosystem principles and an examination of design and planning strategies for plant and landscape resources in urban and metropolitan regions is critical.

WB11	David Myers	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

LARC160 **Introduction to Landscape Architecture and Environmental Design**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO | General Education: DSHU, DSSP

History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences. Topics include urban, ecological, community and creative design.

WB11	Colleen Vacelet	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

LARC162 **Environmental Justice: Same World, Different Built Environment**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DVUP, SCIS

Environmental Justice will be explored in the context of the built environment. What unequal public built environmental threats exist? How can these threats be prevented or eliminated? Public schools, public parks, access to clean water, air pollution, tree coverage are among the built environments examined in the course.

WB11	Dora Cortez, Byoung-Suk Kweon	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

LARC453 **Introduction to GIS and Hydrologic Modeling**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Introduction to Geographic Information Systems (GIS) and their application to hydrologic modeling. Basic GIS skills are used to manipulate and analyze spatial data to populate NRCS TR-55 hydrologic model for use in sizing constructed wetlands, bio-retention cells, and minor flood zones. No prior knowledge of GIS or hydrologic modeling is required. Stormwater and erosion control permitting as well as basic design principles for Maryland Environmental Site Design standards are introduced.

WB11	Christopher Ellis	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

LARC489N **Special Topics in Landscape Architecture; Culture and Earth: Transformation and Adaptation-New Zealand**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

Contact department for information to register for this course.

LARC489O **Special Topics in Landscape Architecture; Computer-Aided Design and Drafting (CADD): Urban Construction**

Credits: 3 Grading Method: Regular

Credit according to time scheduled and organization of course. A lecture and/or studio course organized as an in-depth study of a selected specialization of landscape architecture not covered by existing courses.

WB11	Christopher Ellis	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LARC499 **Independent Studies in Landscape Architecture; Independent Studies in Landscape Architecture**

Credits: 1-4 Grading Method: Regular, Pass-Fail, Audit

Independent studies in landscape architecture including field, studio or library research under the direction of a faculty member.

Contact department for information to register for this course.

LARC699 **Independent Studies in Landscape and Architecture**

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Individual Instruction course.

Contact department for information to register for this course.

LARC799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.

Contact department for information to register for this course.

LBSC Library Science Winter 2023

LBSC708T **Special Topics in Library and Information Science; Introduction to Genealogy**

Credits: 3 Grading Method: Regular, Audit

A special topics course with content determined by individual instructors. For questions about the content of the course contact the College of Information Studies.

WB11	Mary Mannix	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

LGBT Lesbian Gay Bisexual Transgender Studies Winter 2023

LGBT327 **Lesbian, Gay, Bisexual, and Transgender Film and Video**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit , D General Education: DSHU, DVUP

Restriction: Junior standing or higher. Cross-listed with: ENGL359F. Credit only granted for: LGBT327 or ENGL359F.

Comparative analysis of forms, themes, and the politics of representation in film and video by and/or about LGBT people.

Additional Note: Cross-listed with ENGL359F. Credit granted for LGBT327 orENGL359F.

WB11	James Goodwin	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

MIEH Maryland Institute for Applied Environmental Health — Winter 2023

MIEH400 **Introduction to Global Health**

Credits: 3 Grading Method: Regular General Education: DVUP

Prerequisite: Minimum grade of C- in MIEH300; and 1 course with a minimum grade of C- from (SPHL100, PHSC300). Restriction: Must be in the Public Health Science program or must have permission of the program director; and must have completed 60 credits. Credit only granted for: MIEH400 or SPHL498A. Formerly: SPHL498A.

Exploration of theoretical frameworks and practical perspectives on issues shaping the global health panorama. Determinants examined through: biological and epidemiological; social, cultural and economic; environmental and geographic; multi-section, legal and institutional perspectives with synopsis of how these issues are addressed by international and community organizations in developing countries.

WB11	Richard Remigio	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

MIEH609 **Methods in Environmental Health**

(Perm req)

Credits: 1-3 Grading Method: Regular, Sat-Fail

This research-based rotation in environmental health sciences will provide graduate students with the opportunity to work closely with faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research experience and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.

0101	Paul Turner	Seats (Total: 5)
	Contact instructor or department for details.	
0102	Amir Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	
0103	Amy Sapkota	Seats (Total: 5)
	Contact instructor or department for details.	
0104	Donald Milton	Seats (Total: 5)
	Contact instructor or department for details.	

0105	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)

MIEH620 **Global Health Communication and Promotion**

Credits: 3 Grading Method: Regular, Audit

Recommended: MIEH605. Credit only granted for: SPHL620 or SPHL698C. Formerly: SPHL698C.

Explores the critical components in developing, implementing and evaluating health/population promotion and communication interventions. Emphasis is on theory application to a variety of cultural settings. Formative and quantitative research methods will be utilized.

GH01	Muhiuddin Haider MW 5:00pm - 7:00pm Class time/details on ELMs *The class will meet online on January 3.*	Seats (Total: 18) ONLINE ONLINE

MIEH786 **Capstone Project in Public Health**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.

Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.

Contact department for information to register for this course.

MIEH788 **Critical Readings in Environmental Health**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

In-depth examination and critical discussion of the current literature relevant to environmental health.

Contact department for information to register for this course.

MIEH789 **Independent Study**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Individual reading and/or research under a specific faculty member in the department.

Contact department for information to register for this course.

MIEH799 Master's Thesis Research

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

MIEH898 Pre-Candidacy Research

Credits: 1-8 Grading Method: Regular

0101	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)
0104	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)

MIEH899 Doctoral Dissertation Research

Credits: 1-8 Grading Method: Sat-Fail

0101	Paul Turner Contact instructor or department for details.	Seats (Total: 5)
0102	Amir Sapkota Contact instructor or department for details.	Seats (Total: 5)
0103	Amy Sapkota Contact instructor or department for details.	Seats (Total: 5)

0104	Donald Milton Contact instructor or department for details.	Seats (Total: 5)
0105	Robin Puett Contact instructor or department for details.	Seats (Total: 5)
0106	Sacoby Wilson Contact instructor or department for details.	Seats (Total: 5)
0107	Rachel Goldstein Contact instructor or department for details.	Seats (Total: 5)
0108	Devon Payne-Sturges Contact instructor or department for details.	Seats (Total: 5)

MUSC School of Music Winter 2023

MUSC140 **Music Fundamentals I**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSSP

Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).

Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.

WB11	Jiheng Bi TuWThF 10:00am - 12:00pm Class time/details on ELMs	Seats (Total: 20) ONLINE ONLINE	 Discussion

MUSC205 **History of Popular Music, 1950-Present**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HA | General Education: DSHU, DVUP

A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.

WB11	Jackson Mann Class time/details on ELMs	Seats (Total: 40) ONLINE

MUSC220 **Selected Musical Cultures of the World**

Credits: 3 | Grading Method: Regular | CORE: HA, D | General Education: DSHU, DVUP

Restriction: Must not be in any of the following programs: (Music (Professional Program); Music Education).

A critical and comparative exploration of musical practices from around the world in their social, political and economic contexts.

WB11	Xiaoshan Yin	Seats (Total: 40)
	Class time/details on ELMs	ONLINE

NACS Neuroscience & Cognitive Science Winter 2023

NACS728G **Selected Topics in Neuroscience and Cognitive Science; Applied Introduction to Human Brain Mapping**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.

WB11	Jeremy Purcell	Seats (Total: 20)
	MTuWTh 1:00pm - 3:00pm	ONLINE
	Class time/details on ELMs	ONLINE

NACS898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0122	Daniel Butts	Seats (Total: 1)
	Contact instructor or department for details.	
0123	Rodolphe Gentili	Seats (Total: 1)
	Contact instructor or department for details.	
0137	Ricardo Araneda	Seats (Total: 2)
	Contact instructor or department for details.	
0139	Rachel Romeo	Seats (Total: 1)
	Contact instructor or department for details.	
0140	Elizabeth Quinlan	Seats (Total: 1)
	Contact instructor or department for details.	
0141	Nikolas Francis	Seats (Total: 1)
	Contact instructor or department for details.	
0142	Rochelle Newman	Seats (Total: 1)
	Contact instructor or department for details.	

NEUR Neuroscience Winter 2023

NEUR306 **Cellular and Molecular Neuroscience**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Earning C- or higher in NEUR200 or BSCI330. Corequisite: Must have completed or be concurrently enrolled in PHYS132 or equivalent course. Credit only granted for: NEUR306 or BSCI353.

Students will gain an appreciation of neuroscience as the nexus of chemistry, physics, and biology. Additionally, they will gain an understanding of how: both individual and networks of neurons function as variable electrical circuits; our nervous systems transduce signals from the outside world and sets-off molecular cascades; the behavior of a neuron can be changed and or remain the same in response to changing variables. Techniques used to study the nervous system at a cellular and molecular level will be discussed.

WB11	Chan Lin	Seats (Total: 5)
	Class time/details on ELMs	ONLINE

NFSC Nutrition and Food Science Winter 2023

NFSC100 Elements of Nutrition

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: LS General Education: DSNS

Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.

WB11	Margaret Udahogora	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

NFSC386 Experiential Learning

Credits: 3-6 Grading Method: Regular, Pass-Fail

Prerequisite: Permission of AGNR-Nutrition and Food Science department. Restriction: Junior standing or higher. Formerly: FDSC386 and NUTR386.

Contact department for information to register for this course.

NFSC498 Selected Topics

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

Selected current aspects of food.

Contact department for information to register for this course.

NFSC699 Problems in Nutrition and Food Science

Credits: 1-4 Grading Method: Regular, Audit

Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.

Contact department for information to register for this course.

NFSC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.

Contact department for information to register for this course.

NFSC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0106	Instructor: TBA	Seats (Total: 1)
	Contact instructor or department for details.	

PHIL Philosophy Winter 2023

PHIL100 **Introduction to Philosophy**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO General Education: DSHU

An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.

WB11	Christopher Masciari	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PHIL170 **Introduction to Symbolic Logic**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: MS General Education: FSAR

This course will introduce the basic concepts and techniques of modern symbolic logic, with an emphasis on developing skills in two areas: first, translating between ordinary language and logical notation; second, establishing the validity or invalidity of arguments using the methods of truth tables, deductions, and countermodels. Although the subject of symbolic logic was developed by mathematicians and philosophers for their own special purposes (which we will discuss), logical concepts and techniques have found applications in a variety of disciplines, including computer science, economics, law, linguistics, and psychology. We may also consider some of these applications.

WB11	Michael McCourt	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PHIL202 **Know Thyself: Wisdom Through Cognitive Science**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHS, DSHU, SCIS

Credit only granted for: PHIL209N or PHIL202. Formerly: PHIL209N.

How do we improve our decision making? Cognitive science demonstrates that self-knowledge isn't as easy as we think, and that there are numerous biases and fallacies that impact our decision-making in ways that are hard for us to be aware of. In this course you will learn what some of these are and how they have been discovered, and you will explore potential strategies for avoiding these fallacies and for making wiser choices.

WB11	Michael McCourt	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PHIL203 **The Rights and Wrongs of Killing People**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHU, SCIS

Credit only granted for: PHIL209J or PHIL203. Formerly: PHIL209J.

Virtually everyone thinks it's permissible to kill people only in special circumstances. But why is killing usually wrong? Is it ever acceptable to kill an innocent human being intentionally? This course raises these and related questions and examines cases such as terrorism, suicide, abortion, euthanasia, the death penalty, war. Except for a brief discussion of animals, all the controversies considered deal with killing and causing death to human beings.

WB11	Shen Pan	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PHIL220 **Bioethics: Regulating Right and Wrong**

Credits: 3	Grading Method: Regular, Pass-Fail, Audit	General Education: DSHU, DSSP

Credit only granted for: PHIL209A or PHIL220. Formerly: PHIL209A.

Bioethicists formulate ethical guidelines. They answer questions such as: When life-saving health resources are scarce, who should get them? Should we increase supply of one such resource, kidneys, by buying them from living "donors"? If drug trials in developing countries benefit patients who consent to participate, are the trials ethical, even if the same research would be forbidden in the US? If a sick person aims to hasten her death, how, if at all, might her doctor permissibly help her? In this course, students construct and defend ethical rules in four domains: research ethics, allocation of scarce resources, markets in organs, and physician-assisted dying.

WB11	Cody Britson	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PHSC430 **Public Health in the City: Perspectives on Health in the Urban Environment**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

Prerequisite: Minimum grade of C- in BSCI202 and MIEH300. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC430 or SPHL498G. Formerly: SPHL498G.

Exposure to issues related to city habitation and the health of the public, including how the urban environment impacts the lives and health of city dwellers, including discussion of the social determinants of health. Students are encouraged to think about urban health and policy, and to question the current state of urban public health. Issues of race, class, and equality will be discussed throughout the course as they relate to each of these topics.

WB11	Kendall Bustad Class time/details on ELMs	Seats (Total: 30) ONLINE

PHYS Physics Winter 2023

PHYS898 **Pre-Candidacy Research**

(Perm req)

Credits: 1-8 Grading Method: Regular

Contact department for information to register for this course.

PHYS899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0111	Charles Clark Contact instructor or department for details.	Seats (Total: 5)
0153	Michelle Girvan Contact instructor or department for details.	Seats (Total: 1)
0156	Howard Milchberg Contact instructor or department for details.	Seats (Total: 1)
0162	Christopher Monroe Contact instructor or department for details.	Seats (Total: 1)
0197	Victor Galitski Contact instructor or department for details.	Seats (Total: 1)

PLCY Public Policy Winter 2023

PLCY201 **Public Leaders and Active Citizens**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS, DSSP, SCIS

Credit only granted for: PLCY201 or PUAF201. Formerly: PUAF201.

Aims to inspire, teach and engage students in the theory and practice of public leadership from the local to the national to the global level. Students will learn and apply diverse approaches to leadership in a multicultural society while developing an understanding of key frameworks and practices necessary to foster collective action across private, public, and nonprofit sectors. This course will allow students to become informed citizens able to reason critically and persuasively about public matters Students will also explore and assess their own personal values, beliefs, and purpose as they develop their leadership potential.

WB11	Anne Kaiser	Seats (Total: 25)
	MW 1:30pm - 4:30pm	ONLINE
	Class time/details on ELMs	ONLINE

PLCY309 **Internship in Political Institutions: State and Local**

Credits: 3-6 Grading Method: Regular, Pass-Fail

Offers students supervised internship placements in state and local political or public policy organizations.

Contact department for information to register for this course.

PLCY688G **Topics in Public Policy; Governance: Leadership, Management and Accountability**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

WB11	Quentin Hill	Seats (Total: 20)
	Class time/details on ELMs	ONLINE
	Meets online 9:00am-5:00pm on Jan 3, 5, 10, 12 and 17. There will be a 30-minute lunch break each day.	

PLCY688J **Topics in Public Policy; Engaging and Exploring the Complexities of Global Philanthropy and Nonprofit Leadership Israel and Jordan**

Credits: 3 Grading Method: Regular, Audit

Special topics in Public Policy.

Contact department for information to register for this course.

PLCY689I **Public Policy Topics; Social-Ecological Systems, Environmental Policy, and Sustainable Development in Indonesia**

Credits: 3 Grading Method: Regular

Special Topics in Public Policy.

Contact department for information to register for this course.

PLCY689T **Public Policy Topics; Improving Programs through Evaluation-Based Performance Monitoring and Management**

Credits: 3 Grading Method: Regular

Special Topics in Public Policy.

CA01	Douglas Besharov, Douglas Call MTuWThF 9:00am - 2:00pm	Seats (Total: 30) Location: TBA
PGY1	Douglas Besharov, Douglas Call MTuWThF 9:00am - 2:00pm	Seats (Total: 30) Location: TBA
	Must be in the Program Planning, Monitoring, and Evaluation (GC). All other graduate students must request permission. Contact oes@umd.edu. Meet in Milan, Italy.	

PLCY752 **Managing Differences:Resolving Conflict and Negotiating Agreements**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY752 or PUAF752. Formerly: PUAF752.

Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.

WB11	Mark Croatti Class time/details on ELMs	Seats (Total: 25) ONLINE
	Meets online 9:00am - 3:45pm on Jan 3, 4, 5, 6, 9 and 12. There will be a 30-min lunch break each day.	

PLCY798A **Readings in Public Policy**

Credits: 1-3 Grading Method: Regular, Audit

Guided readings for discussions on public policy.

Contact department for information to register for this course.

PLCY898 **Pre-Candidacy Research**

Credits: 1-6 Grading Method: Regular

Contact department for information to register for this course.

The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available. The Department of Psychology enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.

PSYC100 **Introduction to Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSNS

A basic introductory course intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

WB11	Dirk Parham	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

PSYC200 **Statistical Methods in Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: FSAR

Prerequisite: PSYC100; and 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH136, or MATH140).

A basic introduction to quantitative methods used in psychological research.

WB11	Tracy Tomlinson	Seats (Total: 60)
	W 10:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

PSYC221 **Social Psychology**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB | General Education: DSHS, DSSP

Prerequisite: PSYC100.

The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, personal perception, interpersonal attraction, and group behavior.

WB11	Dirk Parham	Seats (Total: 50)
	Class time/details on ELMs	ONLINE

PSYC237 **Psychology of Evil**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHS, DSSP, SCIS

Credit only granted for: PSYC237 or PSYC289E. Formerly: PSYC289E.

Why is there evil in the world? Are some born evil, or do social, environmental and cultural forces create evil? What makes otherwise good people do evil things? The scientific study of evil epitomizes the fundamental challenge that psychology faces in dissecting the role of biology (nature) and the social context (nurture).

Visit go.umd.edu/evil for more information about the course.

WB11	Scott Roberts	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PSYC332 **Psychology of Human Sexuality**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.

WB11	Stephanie Yee	Seats (Total: 25)
	TuTh 10:00am - 12:00pm	ONLINE
	Class time/details on ELMs	ONLINE

PSYC334 **Psychology of Interpersonal Relationships**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100.

Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g., communication, bargaining, conflict resolution), and issues associated with troubled dyadic relations with equal partners (e.g., jealousy, spouse abuse, divorce).

WB11	Maria Wydra	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

PSYC362 **Introduction to Negotiation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Restriction: Must be in Psychology program.

Overview of the field of negotiation and the social-psychological and contextual factors that facilitate and inhibit successful negotiation agreements. Students will engage in a variety of negotiation exercises individually and as a team.

WB11	Jinny Choi	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

PSYC404 **Introduction to Behavioral Pharmacology**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC202 or NEUR200. Restriction: Must be in Psychology program.

Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.

WB11	Ana Navarro Cebrian	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PSYC432 **Counseling Psychology: Theories, Research, and Practice**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC200.

Analysis of research and intervention strategies developed and used by counseling psychologists. Historical and current trends in content and methodology.

WB11	Nazish Salahuddin	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PSYC437 **The Assessment and Treatment of Addictive Behaviors**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: PSYC100; and 9 credits in PSYC courses.

Explores the current research in assessment and treatment of addictive behaviors. Topics may include addictions in the areas of alcohol, drugs, nicotine, gambling, and eating.

WB11	Christopher Seitz-Brown	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

PSYC478 **Independent Study in Psychology**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

WB11	Tracy Tomlinson	Seats (Total: 5)
	Class time/details on ELMs	ONLINE

PSYC479 **Special Research Problems in Psychology**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

WB11	Tracy Tomlinson Class time/details on ELMs	Seats (Total: 5) ONLINE

PSYC489J **Advanced Special Topics in Psychology; Applied Introduction to Human Brain Mapping**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Treatment of a specialized topic in psychology.

This is an introduction to using neuroimaging methods such as functional Magnetic Resonance Imaging (fMRI) to map mental functions in the human brain. Students will be taught about how to navigate through the brain, develop questions for exploring functional brain mapping, and understanding existing limitations of current neuroimaging studies.

WB11	Jeremy Purcell MTuWTh 1:00pm - 3:00pm Class time/details on ELMs	Seats (Total: 20) ONLINE ONLINE

PSYC624 **Adult Psychopathology**

Credits: 3 Grading Method: Regular

Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC624 or PSYC719. Formerly: PSYC719.

Examines the scientific and clinical literature relevant to normal and pathological behavior in adults and associated nosological systems for categorizing psychopathology. Issues relevant to etiology, differential diagnosis, and treatment planning are also considered.

PCC1	Susanna Crowell McQuarrie, Christina Danko **Meets November 28, 2022 - February 17, 2023** Tu 6:00pm - 9:45pm *Must be in Clinical Psychological Science (MPS).*	Seats (Total: 40) BPS 1140B

PSYC625 **Clinical Assessment: Psychometric Principles, Testing and Behavior**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of BSOS-Psychology department. Credit only granted for: PSYC625 or PSYC721. Formerly: PSYC721.

An examination of fundamental principles of psychological assessment; application of these principles to the development of evidence-based assessments of clinical conditions and associated behaviors; and application of evidence-based assessments to the evaluation and understanding of clinical conditions evaluated and treated in therapeutic settings.

PCC1	Christina Danko	Seats (Total: 40)
	Meets November 28, 2022 - February 17, 2023	
	Th 6:00pm - 9:45pm	BPS 1140B
	Must be in Clinical Psychological Science (MPS).	

PSYC629G **Clinical Laboratory; Anti-Oppression Institute for Clinicians**

Credits: 1-3 Grading Method: Sat-Fail

Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.

WB11	Skyler Jackson	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

PSYC638 **Externship in Professional Psychology**

Credits: 1-3 Grading Method: Sat-Fail

Approved appointment as an extern in a mental health setting.

0101	Jonathan Mohr	Seats (Total: 15)
	Contact instructor or department for details.	

PSYC652 **Analytical Thinking: Statistical Methods at Work**

Credits: 3 Grading Method: Regular, Audit

Additional information: Students will be taught how to conduct analyses in R, SPSS, SAS, Stata, and excel; students are encouraged to practice analyses on at least two of these programs.

Personal and organizational growth begins with asking and answering great questions. Correspondingly, this course begins with demonstrations of how to translate business questions into research questions. Statistical methods used to answer business questions are taught first conceptually, then computationally using statistical software. This course emphasizes interpreting results, the regression model, and other issues salient to business research, such as handling large datasets. Students will be provided with a simulated dataset that they will use in learning how to frame and answer business questions using the techniques covered in this course. At the conclusion of this course, students will be required to provide an executive-level presentation on the business question, their findings, and resulting implications.

PCI1	Meg O'Neill	Seats (Total: 40)
	Meets November 28, 2022 - February 17, 2023	
	M 5:00pm - 8:00pm	BPS 1140B
	Class time/details on ELMs	ONLINE
	Must be in Industrial/Organizational Psychology (MPS).	

PSYC655 **Talent Development**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this course, students will learn how to design and implement effective employee training programs as well as how to encourage informal learning in organizations. This course will review current theories in adult learning (e.g., ADDIE model, action learning, peer feedback/coaching), several popular assessment tools (e.g., MBTI), and best practices for evaluating training programs. Issues relevant to leadership identification and development, including succession planning, will also be covered. As part of this course, students will work in teams to design and deliver a brief training module and practice giving and receiving feedback. Additionally, students will complete, and facilitate a debriefing on, a 360-degree feedback assessment.

PCI1	Kenneth Yusko	Seats (Total: 40)
	Meets November 28, 2022 - February 17, 2023	
	M 5:00pm - 8:30pm	BPS 1140B
	Class time/details on ELMs	ONLINE
	Must be in Industrial/Organizational Psychology (MPS).	

PSYC656 **Business Fundamentals and Legal Issues facing Organizations**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

This course provides an overview of the fundamentals of business, including both issues of finance and legal issues faced by organizations. Topics will include finance, accounting, and marketing. Students will learn core business concepts, about how each major business function enables organizations to run, and how to talk to and understand the leaders of organization. Additionally, this course will provide an overview of common legal challenges organizations face. In addition to introducing students to employment law, this course will review professional ethics standards for IO psychology. This course will use case study methodology to hone students' understanding of the ethical and legal issues faced in day-to-day organizational life.

PCI1	Matthew Montei **Meets November 28, 2022 - February 17, 2023** M 5:00pm - 8:30pm Class time/details on ELMs *Must be in Industrial/Organizational Psychology (MPS).*	Seats (Total: 40) PHY 2122 ONLINE

PSYC657 **Managing Strategic Organizational Change**

Credits: 3 Grading Method: Regular, Audit

Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.

In this course, students will learn to think about organizations as systems and will explore catalysts of organizational change. Issues of strategy, market pressure, competition, workforce planning, and stakeholder buy-in will be discussed. Finally, students will learn about methods for planning, leveraging, and managing organizational change. Case study methodology will be used to deepen learning on the challenges faced during organizational change and how to guide organizations through change, planned or not.

PCI1	David Shar **Meets November 28, 2022 - February 17, 2023** M 5:00pm - 8:30pm Class time/details on ELMs *Must be in Industrial/Organizational Psychology (MPS).*	Seats (Total: 40) PHY 2122 ONLINE

PSYC799 **Master's Thesis Research**

Credits: 1-6 Grading Method: Sat-Fail

Contact department for information to register for this course.

PSYC899 **Doctoral Dissertation Research**

Credits: 1-8 Grading Method: Sat-Fail

0101	Edward Bernat Contact instructor or department for details.	Seats (Total: 5)
0102	Jack Blanchard Contact instructor or department for details.	Seats (Total: 5)
0103	Andrea Chronis-Tuscano Contact instructor or department for details.	Seats (Total: 5)

0104	Andres De Los Reyes Contact instructor or department for details.	Seats (Total: 5)
0105	Lea Dougherty Contact instructor or department for details.	Seats (Total: 5)
0106	Jessica Magidson Contact instructor or department for details.	Seats (Total: 5)
0107	Alexander Shackman Contact instructor or department for details.	Seats (Total: 5)
0121	Anna Li Contact instructor or department for details.	Seats (Total: 5)
0122	Alec Solway Contact instructor or department for details.	Seats (Total: 5)
0123	Michael Dougherty Contact instructor or department for details.	Seats (Total: 5)
0125	Jens Herberholz Contact instructor or department for details.	Seats (Total: 5)
0126	Luiz Pessoa Contact instructor or department for details.	Seats (Total: 5)
0127	Matthew Roesch Contact instructor or department for details.	Seats (Total: 5)
0128	Robert Slevc Contact instructor or department for details.	Seats (Total: 5)
0131	Clara Hill Contact instructor or department for details.	Seats (Total: 5)
0132	Derek Iwamoto Contact instructor or department for details.	Seats (Total: 5)
0133	Jonathan Mohr Contact instructor or department for details.	Seats (Total: 5)
0134	Karen O'Brien Contact instructor or department for details.	Seats (Total: 5)

0142	Jude Cassidy Contact instructor or department for details.	Seats (Total: 5)
0143	Elizabeth Redcay Contact instructor or department for details.	Seats (Total: 5)
0144	Tracy Riggins Contact instructor or department for details.	Seats (Total: 5)
0145	Arianna Gard Contact instructor or department for details.	Seats (Total: 5)
0146	Fanita Tyrell Contact instructor or department for details.	Seats (Total: 5)
0151	Michele Gelfand Contact instructor or department for details.	Seats (Total: 5)
0152	James Grand Contact instructor or department for details.	Seats (Total: 5)
0153	Paul Hanges Contact instructor or department for details.	Seats (Total: 5)
0154	A Kruglanski Contact instructor or department for details.	Seats (Total: 5)
0155	Edward Lemay Contact instructor or department for details.	Seats (Total: 5)
0158	Jennifer Wessel Contact instructor or department for details.	Seats (Total: 5)
0159	Linda Zou Contact instructor or department for details.	Seats (Total: 5)

RDEV Real Estate Development Winter 2023

RDEV689C **Current Topics in Real Estate Development; Havana's Art & Culture: The intersection of architecutre, planning, preservation and economics.**

Credits: 3

Grading Method: Regular, Audit, Sat-Fail

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

Cross-listed with ARCH478D, ARCH678D, HISP619C, URSP399I, and URSP688R. Credit only granted for ARCH478D, ARCH678D, HISP619C, RDEV689C, URSP399I, or URSP688R. This course will explore art and culture in Havana, Cuba as the intersection of architecture, planning, preservation, and economics, including real estate development. Havana is one of the oldest cities in the hemisphere, having just celebrated its 500th anniversary. The course will provide the opportunity for the students to intensely interact (virtually, from Havana) with Cuban experts in each discipline. Students will first learn about the rich and complex contextual past and present framework for how these four disciplines interact and are manifested in the arts, culture, and society. Group projects will apply the learning to specific neighborhoods in Havana. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, and international collaboration.

Contact department for information to register for this course.

RDEV689L **Current Topics in Real Estate Development; Risk Management for Real Estate Developers**

(Perm req)

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

Course meeting days and times are available in the syllabus.

0101	Robert Wertheimer	Seats (Total: 15)
	Contact instructor or department for details.	

RDEV689Y **Current Topics in Real Estate Development; Guided Real Estate Development Project**

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.

WB11	Maria Day-Marshall	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

RUSS Russian Winter 2023

RUSS411 **Linguistic Analysis of Russian I**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have completed or be concurrently enrolled in RUSS301.

Elucidation of theoretical concepts of modern linguistics through the analysis of problematic concepts in the Russian linguistic system. Phonology and the syntax of the simple sentence.

WB11	Cynthia Martin	Seats (Total: 10)
	Class time/details on ELMs	ONLINE

SLLC368D **Special Topics in Film Studies I; Action, Adventure, and Spectacle Film in World Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

Critical study of some of the most important examples of action, adventure, and spectacle cinema from the international and transnational perspectives. Exploration of the historical, esthetic, generic, institutional, and political significance of these films. Cross-listed with CINE329D. Credit only granted for: CINE329D, SLLC368D, or FILM329D.

WB11	Jason Kuo	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

SLLC368K **Special Topics in Film Studies I; Disaster Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

Crosslisted with CINE359C. Credit only granted for CINE359C or SLLC368K. Exploration of disaster films in Hollywood and global cinema during the past century. The course will examine disaster films, such as Godzilla, King Kong, and Contagion, as a form of cinema's critical encounter with war, colonialism, and scientific development.

WB11	Daniel Richter	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

SLLC368L **Special Topics in Film Studies I; ANIMATION ON TV**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

Examines the history of animated works designed specifically for the television medium. Cross-listed with CINE319L. Credit only granted for: CINE319L, SLLC368L, or FILM319L.

WB11	Paul Cote	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

SLLC368N **Special Topics in Film Studies I; The Suspense Thriller in World Cinema**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Content varies. Exploration of topics in film studies beyond national traditions, for example through the lens of theory, genre, auteurship, aesthetic movements in cinema, and/or comparative perspectives.

Crosslisted with CINE359T. Credit only granted for CINE359T or SLLC368N. Through screenings, readings, and discussions, this online course offers students the opportunity to examine major suspense thriller films in world cinema. We will screen films from different countries in a spectrum of sub-genres (such as detective thrillers, psychological thrillers, spy thrillers, police thrillers, science-fiction thrillers) in order to understand current artistic, critical, ideological, and theoretical debates in cinema and media studies.

WB11	Jason Kuo	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

SOCY Sociology Winter 2023

SOCY100 Introduction to Sociology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.

WB11	Chandra Reyna	Seats (Total: 35)
	Class time/details on ELMs	ONLINE

SOCY105 Introduction to Contemporary Social Problems

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: SB General Education: DSHS

An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality.

WB11	Brian Connor	Seats (Total: 25)
	Class time/details on ELMs	ONLINE

SOCY230 Sociological Social Psychology

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: DSHS

Theoretical perspectives and their applications. Socialization through the life course, the self-concept, attitudes, emotion, attribution, interpersonal relations, group processes, deviance, and social change.

WB11	Kelly Beavan	Seats (Total: 25)
	TuTh 11:00am - 12:15pm	ONLINE
	Class time/details on ELMs	ONLINE

SOCY241 **Inequality in American Society**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: SB, D | General Education: DSHS, DVUP

Credit only granted for: SOCY241 or SOCY441.

The dynamics of inequality: its social production, politics, future, and ideological bases. Utopian communities, efforts to eliminate inequality.

WB11	Simone Durham	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

SOCY325 **The Sociology of Gender**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | , D

Prerequisite: 3 credits in SOCY courses. Cross-listed with: WGSS325. Credit only granted for: SOCY325, WMST325 or WGSS325. Formerly: WMST325.

Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.

WB11	Asiah Gayfield	Seats (Total: 20)
	Class time/details on ELMs	ONLINE

SOCY899 **Doctoral Dissertation Research**

Credits: 1-6 | Grading Method: Sat-Fail

Contact department for information to register for this course.

SPAN Spanish Winter 2023

SPAN103 **Intensive Elementary Spanish**

Credits: 4 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish. Credit only granted for: SPAN102 or SPAN103.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

WB11	Maria Herrera Arvay	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN169X **Special Topics in Study Abroad I; Elementary Spanish I**

Credits: 2-6 Grading Method: Regular, Pass-Fail, Audit

Special topics course taken as part of an approved study abroad program.

Contact department for information to register for this course.

SPAN203 **Intensive Intermediate Spanish**

Credits: 4 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: SPAN103; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be a native/fluent speaker of Spanish.

Covers speaking, reading, writing, listening, and culture of Spanish-speaking world.

WB11	Jose Magro	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB12	Jorge Bayas	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	
WB13	Juan Diaz	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN204 **Spanish Grammar Review**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit CORE: HO

Prerequisite: SPAN203; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Not open to fluent/native speakers of Spanish.

An in-depth study and analysis of selected grammatical topics in a contextualized framework.

WB11	Maureen Wrightson	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN207 **Reading and Writing in Spanish**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | General Education: DSHU

Prerequisite: Must have completed or be concurrently enrolled in SPAN204; or must have appropriate Foreign Language Placement Test (FLPT) score.

Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.

WB11	Daniela Hernandez	Seats (Total: 25)
	Class time/details on ELMs	ONLINE
	This online section contains a synchronous component. Meeting times will be agreed upon before the first day of class. Class details on ELMS.	

SPAN225 **Cultures of the Contact Zones - Seville, Al-Andalus and the Atlantic World**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit | CORE: HO, D | General Education: DSHU, DVUP

Cross-listed with: HONR248E. Credit only granted for: HONR248E or SPAN225.

Content is broad enough to deal with issues of multiculturalism in Spain but also specific enough to center on the city of Seville and the Andalusion region.

Contact department for information to register for this course.

SPAN399C **Independent Study in Spanish; Spanish Culture in the Convivencia Period**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Specific readings in literature or a translation project under the supervision of a faculty member of the department.

Contact department for information to register for this course.

SPAN402 **Advanced Composition II**

Credits: 3 | Grading Method: Regular, Pass-Fail, Audit

Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.

Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.

Contact department for information to register for this course.

SPAN448C **Special Topics in Latin American Civilization; Critical Cultures in Cotemporary Cuba: Introduction to Cuban Revolution**

Credits: 3 Grading Method: Regular

Intensive independent study of a selected topic related to Latin American civilization.

Cross-listed with LACS369N and SPAN699C. Credit only granted for SPAN448C, LACS369N, or SPAN699C.

Contact department for information to register for this course.

SPAN699C **Independent Study in Spanish; Critical Cultures in Cotemporary Cuba: Introduction to CubanRevolution**

Credits: 1-3 Grading Method: Regular, Audit, Sat-Fail

This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.

Cross-listed with SPAN448C and LACS369N. Credit only granted for SPAN448C, LACS369N, or SPAN699C.

Contact department for information to register for this course.

SPHL Public Health Winter 2023

SPHL612 **Research Ethics**

Credits: 1 Grading Method: Regular, Audit, Sat-Fail

Restriction: Must be a graduate student in the School of Public Health. Credit only granted for: EPIB641, KNES689Y or SPHL612. Formerly: EPIB641, KNES689Y.

Overview and discussion of ethical issues that face public health researchers.

WB11	Stephen Roth	Seats (Total: 12)
	MWF 9:00am - 11:00am	ONLINE

STAT Statistics and Probability Winter 2023

STAT689 **Research Interactions in Statistics**

Credits: 1-3 Grading Method: Regular, Audit

The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.

0101	Paul Smith	Seats (Total: 10)
	Contact instructor or department for details.	

STAT899 **Doctoral Dissertation Research**

(Perm req)

Credits: 1-8 Grading Method: Sat-Fail

Contact department for information to register for this course.

TDPS Theatre, Dance and Performance Studies Winter 2023

TDPS458M **Special Topics in Advanced Performing Arts; Sound and Creative Process**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.

Participants will engage in creative sound and embodied-process frameworks related to the work of the Clarices Artists in Residence, slowdanger. Course activities will focus on demystifying and understanding sound technology for participants use in their own respective artistic processes, culminating in the creation of interdisciplinary works that utilize sound technology. Cross-listed with THET669E and DANC689M.

0101	Samuel Crawford	Seats (Total: 12)
	MTuWTh 10:00am - 2:00pm	PAC 1908

THET Theatre Winter 2023

THET285 **The Art of Communication and Presentation**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit General Education: FSOC

Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.

An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.

WB11	Melissa Sturges	Seats (Total: 15)
	MTuWThF 9:00am - 12:00pm	ONLINE

THET499 **Independent Study**

Credits: 1-3 Grading Method: Regular, Pass-Fail, Audit

An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.

0101	Daniel Conway Contact instructor or department for details.	Seats (Total: 1)
0102	Andrew Cissna Contact instructor or department for details.	Seats (Total: 1)

THET669 **Independent Study; Independent Study**

(Perm req)

Credits: 1-3 Grading Method: Regular, Audit

0101	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 5)
0102	Misha Kachman Contact instructor or department for details.	Seats (Total: 5)
0103	Van Tran Nguyen Contact instructor or department for details.	Seats (Total: 3)

THET669E **Independent Study; Sound and Creative Process**

Credits: 3 Grading Method: Regular, Audit, Sat-Fail

Participants will engage in creative sound and embodied-process frameworks related to the work of the Clarices Artists in Residence, slowdanger. Course activities will focus on demystifying and understanding sound technology for participants use in their own respective artistic processes, culminating in the creation of interdisciplinary works that utilize sound technology. Cross-listed with TDPS458M and DANC689M.

0101	Samuel Crawford MTuWTh 10:00am - 2:00pm	Seats (Total: 12) PAC 1908

THET788 **Master's Tutorial**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

Collaboration with a faculty member on joint creative and artistic projects. A tutorial that assists students in developing a professional design portfolio, monitors practical production efforts and addresses practical production skills that may not be offered in traditional design studios.

0101	Helen Huang Contact instructor or department for details.	Seats (Total: 3)
0102	Jared Mezzocchi Contact instructor or department for details.	Seats (Total: 3)

0103	Amith Chandrashaker	Seats (Total: 3)
	Contact instructor or department for details.	

THET789 **Master's Practicum**

(Perm req)

Credits: 1-6 Grading Method: Regular, Audit

The class encompasses various areas of pedagogical interactions between MFAD students and their mentors which include, but are not limited to: design advising and supervision for mainstage design assignments and professional projects outside the School, production process supervision (shop walkthroughs, fittings, technical rehearsals, note sessions), mandatory design critiques, assisting faculty members on outside professional projects etc.

0101	Misha Kachman	Seats (Total: 1)
	Contact instructor or department for details.	
0102	Helen Huang	Seats (Total: 3)
	Contact instructor or department for details.	
0103	Jared Mezzocchi	Seats (Total: 5)
	Contact instructor or department for details.	
0104	Amith Chandrashaker	Seats (Total: 5)
	Contact instructor or department for details.	

THET799 **Master's Thesis Research**

(Perm req)

Credits: 1-6 Grading Method: Sat-Fail

Projects are assigned and approved as Thesis by the student's primary faculty mentor. Projects fall into three categories: 1) realized mainstage designs at the Clarice Smith Performing Arts Center; 2) realized designs at professional venues outside the University; 3) theoretical designs.

Contact department for information to register for this course.

THET889 **Doctoral Tutorial in Theatre**

(Perm req)

Credits: 1-6 Grading Method: Regular

Individual research in theatre.

0101	Faedra Carpenter	Seats (Total: 3)
	Contact instructor or department for details.	
0102	Franklin Hildy	Seats (Total: 5)
	Contact instructor or department for details.	

THET899 **Doctoral Dissertation Research**

(Perm req)

Credits: 4-6 Grading Method: Sat-Fail

WB11	Maura Keefe	Seats (Total: 1)
	Class time/details on ELMs	ONLINE

TLPL Teaching and Learning, Policy and Leadership — Winter 2023

TLPL666 **English Grammar for Teachers of English to Speakers of Other Languages**

Credits: 3 Grading Method: Regular, Audit

Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI635 or TLPL666. Formerly: EDCI635.

English grammar and methods of teaching grammar for graduate, prospective and current teachers of English to speakers of other languages. Analysis of the major grammatical structures of American English. Discussion of the role of teaching grammar, and effective classroom methods and techniques for the English as a second/foreign language classroom.

WB11	Kellie Rolstad	Seats (Total: 5)
	Class time/details on ELMs	ONLINE

TLPL798 **Special Problems in Education**

Credits: 1-6 Grading Method: Regular, Audit

Exploration of current problems in teaching, learning, policy and leadership. Available only to master's or doctoral candidates under the direction of their advisors.

Contact department for information to register for this course.

TLPL888 **Apprenticeship in Education**

Credits: 1-8 Grading Method: Regular, Audit

Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.

Contact department for information to register for this course.

TLPL889 **Internship in Education**

Credits: 3-8 Grading Method: Regular, Audit

Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.

I119	Lawrence Clark	Seats (Total: 5)
	Contact instructor or department for details.	

I121	Anita Sanyal Contact instructor or department for details.	Seats (Total: 5)
I122	Rossina Liu Contact instructor or department for details.	Seats (Total: 5)
I127	Sophia Rodriguez Contact instructor or department for details.	Seats (Total: 5)

TLPL898 **Pre-Candidacy Research**

Credits: 1-8 Grading Method: Regular

0105	David Weintrop Contact instructor or department for details.	Seats (Total: 5)
0106	Daniel Levin Contact instructor or department for details.	Seats (Total: 5)
0107	James McGinnis Contact instructor or department for details.	Seats (Total: 5)
0108	Margaret Walker Contact instructor or department for details.	Seats (Total: 5)
0109	Claudia Galindo Contact instructor or department for details.	Seats (Total: 5)
0111	Janet Walkoe Contact instructor or department for details.	Seats (Total: 5)
0112	Andrew Brantlinger Contact instructor or department for details.	Seats (Total: 5)
0113	Daniel Chazan Contact instructor or department for details.	Seats (Total: 5)
I104	Campbell Scribner Contact instructor or department for details.	Seats (Total: 5)
I109	Claudia Galindo Contact instructor or department for details.	Seats (Total: 5)
I121	Anita Sanyal Contact instructor or department for details.	Seats (Total: 5)

I122	Rossina Liu Contact instructor or department for details.	Seats (Total: 5)
I126	Megan Peercy Contact instructor or department for details.	Seats (Total: 5)
I127	Sophia Rodriguez Contact instructor or department for details.	Seats (Total: 5)

UNIV University Courses Winter 2023

UNIV099 **Internship Seminar**

(Perm req)

Credits: 0 Grading Method: Sat-Fail

Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.

Restriction: Must have earned a minimum cumulative GPA of 2.0 (undergraduates) or 3.0 (graduate students); and Permission of the Career Center; and permission of instructor.

I101	Jenny Sak, Erica Ely Contact instructor or department for details.	Seats (Total: 10)

URSP Urban Studies and Planning Winter 2023

URSP399I **Independent Study; Havana's Art & Culture: The intersection of architecutre, planning, preservation and economics.**

Credits: 3 Grading Method: Regular

Directed research and study of selected aspects of urban affairs.

Cross-listed with ARCH478D, ARCH678D, HISP619C, RDEV689C, and URSP688R. Credit only granted for ARCH478D, ARCH678D, HISP619C, RDEV689C, URSP399I, or URSP688R. This course will explore art and culture in Havana, Cuba as the intersection of architecture, planning, preservation, and economics, including real estate development. Havana is one of the oldest cities in the hemisphere, having just celebrated its 500th anniversary. The course will provide the opportunity for the students to intensely interact (virtually, from Havana) with Cuban experts in each discipline. Students will first learn about the rich and complex contextual past and present framework for how these four disciplines interact and are manifested in the arts, culture, and society. Group projects will apply the learning to specific neighborhoods in Havana. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, and international collaboration.

Contact department for information to register for this course.

URSP688K **Recent Developments in Urban Studies; Urban Design Software**

(Perm req)

Credits: 3 Grading Method: Regular, Audit

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

0101	Amber Wendland	Seats (Total: 20)
	MTuWThF 6:00pm - 8:45pm	JMZ 1224
	Class time/details on ELMs	ONLINE

URSP688R **Recent Developments in Urban Studies; Havana's Art & Culture: The intersection of architecutre, planning, preservation and economics.**

Credits: 3 Grading Method: Regular

Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.

Cross-listed with ARCH478D, ARCH678D, HISP619C, RDEV689C, and URSP399I. Credit only granted for ARCH478D, ARCH678D, HISP619C, RDEV689C, URSP399I, or URSP688R. This course will explore art and culture in Havana, Cuba as the intersection of architecture, planning, preservation, and economics, including real estate development. Havana is one of the oldest cities in the hemisphere, having just celebrated its 500th anniversary. The course will provide the opportunity for the students to intensely interact (virtually, from Havana) with Cuban experts in each discipline. Students will first learn about the rich and complex contextual past and present framework for how these four disciplines interact and are manifested in the arts, culture, and society. Group projects will apply the learning to specific neighborhoods in Havana. This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide opportunities for virtual, project-based, and international collaboration.

Contact department for information to register for this course.

WGSS Women, Gender, and Sexuality Studies — Winter 2023

WGSS290 **Bodies in Contention**

Credits: 3 Grading Method: Regular General Education: DSHS, DVUP, SCIS

Credit only granted for: WMST298D or WGSS290. Formerly: WMST298D.

Explores the contributions of feminist scholarship in framing and resolving contemporary controversies concerning gendered bodies. It includes the ways in which knowledge about the human body has been shaped by cultural ideas of gender, race, sexuality and ability.

WB11	Sydney Lewis	Seats (Total: 30)
	Class time/details on ELMs	ONLINE

WGSS326 **Biology of Reproduction**

Credits: 3 Grading Method: Regular, Pass-Fail, Audit

Prerequisite: BSCI170 and BSCI171; or BSCI105; or permission of the Harriet Tubman Department of Women, Gender, and Sexuality Studies; or permission of CMNS-Biological Sciences UG Program. Cross-listed with: BSCI342. Credit only granted for: BSCI342, WMST326 or WGSS326. Formerly: WMST326.

The biology of the reproductive system with emphasis on mammals and, in particular, on human reproduction. Hormone actions, sperm production, ovulation, sexual differentiation, sexual behavior, contraception, pregnancy, lactation, maternal behavior and menopause.

Cross-listed with BSCI342. Credit only granted for BSCI342 or WGSS326.

WB11	Justicia Opoku-Edusei	Seats (Total: 30)
	Class time/details on ELMs	ONLINE